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ASTER, CREGO ENCHANTRESS

PETUNIA, GIANTS OF CALIFORNIA



FLOWER

VEGETABLE

FIELD SEEDS

FERTILIZERS

INSECTICIDES

1940

*"Our Seeds Grow Friends"*

**DUTHIE SEED COMPANY**

**510 Main Avenue**

**SPOKANE, WASHINGTON**

**826 Main Street**

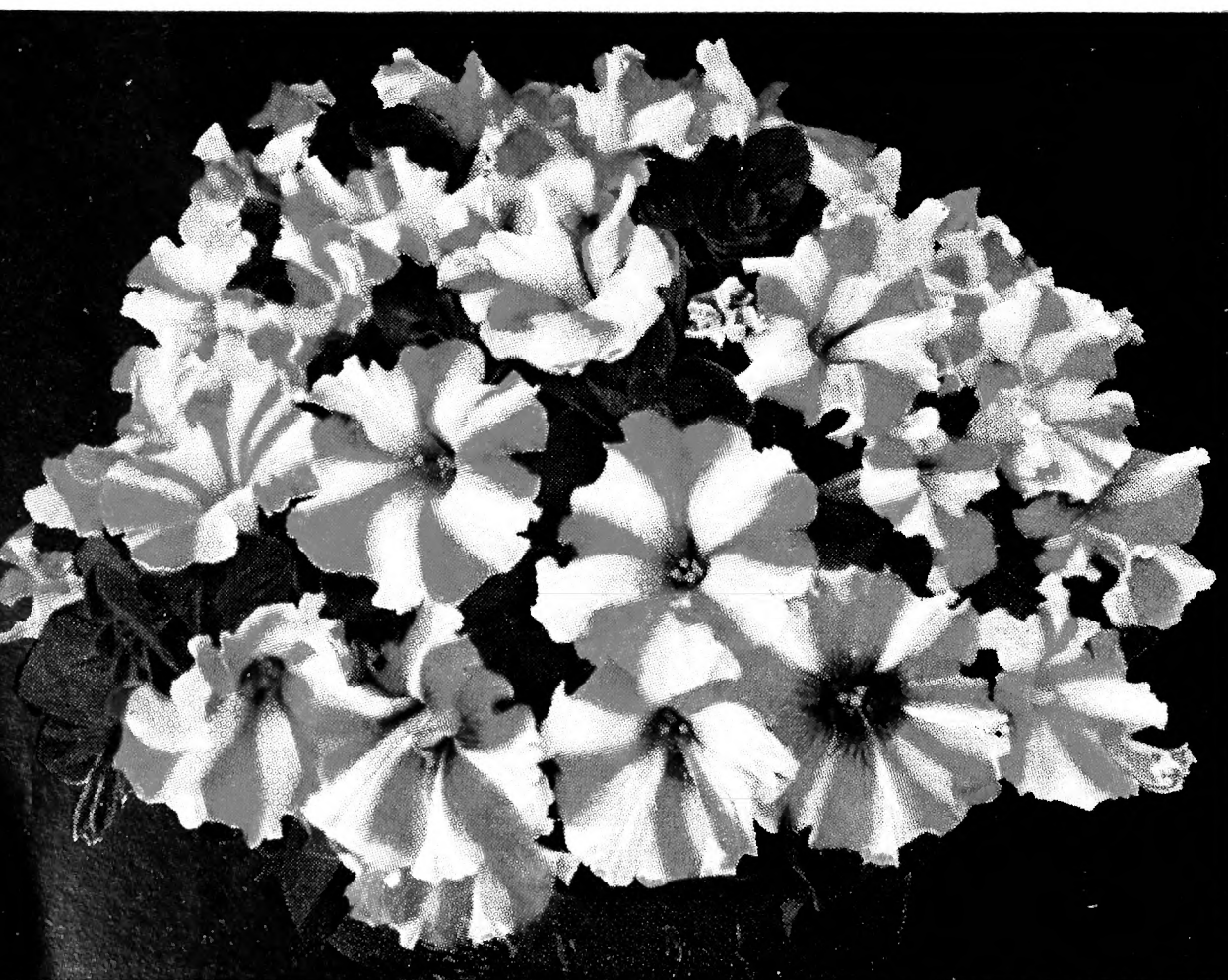
**LEWISTON, IDAHO**





### MARIGOLD, HARMONY HYBRIDS

An excellent new strain of Marigolds embodying all the fine features of Harmony combined with a wide and varied color range. All double; early. Flowers medium size, rather large for the Dwarf French type, and do not have the strong Marigold odor. **Pkt. 25c.**



### PETUNIA, MINIATURE RUFFLED BETSY ROSS

The color of Betsy Ross is red and white, with the white blending to golden and the red blending to very deep red in the throat. This color combination creates a decidedly gay effect. Plants uniform and compact, completely covered with well ruffled blooms which have a good open throat. Excellent as a pot plant. **Pkt. 25c.**



### SNAPDRAGON, ROSALIE

**Bronze Medal, All-America Selections, 1940**

This exciting color is entirely new in Antirrhinum. A rich deep rose with an underlying tone of topaz or amber, giving it a richness which makes it stand out among all other colors. The plants are base branching and produce from six to eight huge long flowering spikes on which the florets are decidedly well arranged. This is an all-purpose Snapdragon. **Pkt. 25c.**



### SPECIAL OFFER

Ipomoea, Scarlett	
O'Hara	.....\$0.15
Marigold, Harmony	
Hybrids	..... .25
Petunia, Miniature Ruffled Betsy Ross	.... .25
Snapdragon, Rosalie	.. .25
Phlox Gigantea,	
Salmon Glory	..... .10
Scabiosa Imperial	
Giants, Blue Moon	.. .15
Marigold, Early Sunshine	.15

Total.....\$1.30

**All Postpaid for \$1.00**





# IDAHO SEED POTATOES

Our **SEED POTATOES** are the very finest stock.

Only high yielding hills and selected tubers are used in production of this Supreme Quality seed stock.

**IRISH COBBLER**—Splendid creamy white potato for early market. Large, round, sometimes slightly netted. Will bake dry and mealy, even before ripe. Extra early.

10 lb. postpaid 3rd zone, \$1.00.

Write for quantity prices.

**THE NEW KATAHDIN**—To enable as many as possible of our customers to try this new Potato, we offer it in small quantities only, subject to being unsold.

Price postpaid 3rd zone, 10 lb. \$1.50.

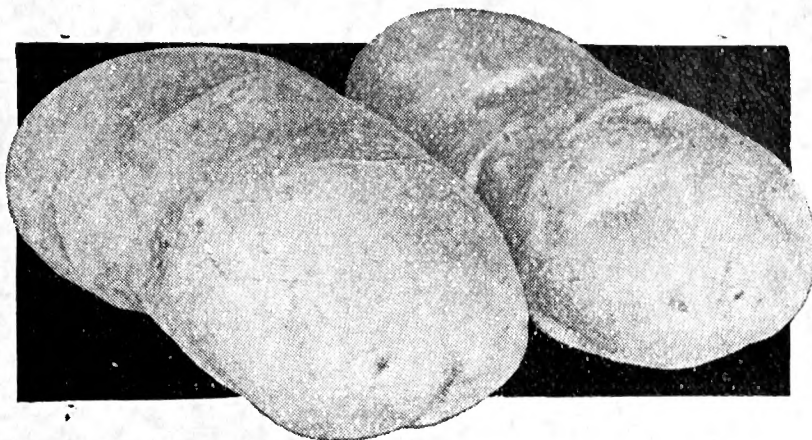
**BLISS TRIUMPH**—Recognized as one of the very earliest varieties. Is also a good keeper. Very productive. Tubers round, pink skin, flesh very white and of excellent flavor.

10 lb. \$1.00, postpaid 3rd zone.

**EARLY OHIO**—One of the best early pink potatoes. Tubers round, oblong shape. Eyes rather shallow but strong. An old favorite that is still popular in many sections.

Price prepaid 3rd zone, 10 lb. \$1.00.

Write for quantity prices.



**NETTED GEM** — Russett Burbank, Yakima Gem, Idaho Russett, etc. A splendid main crop late potato that gives good results in dry sections. Flesh white; eyes are flush with surface; good keeper and produces a fine yield. Tubers are elongated, medium sized with russett skin. This is the variety grown extensively by irrigation in Washington and Idaho for baking. Our stock is extra choice of the most improved type.

Price prepaid 3rd zone, 10 lbs. 90c.

Write for quantity prices.

## DO NOT FAIL TO INCLUDE WITH YOUR ORDER

**DUTHIE'S STRINGLESS WAX BEANS — 52 Days.** A most prolific variety of superlative quality. The handsome rich yellow pods are slightly curved, averaging 6 to 7 inches in length. They are almost round, very meaty and sweet, and perfectly stringless at all stages. The habit of the plant is free branching, but sturdy and upright, every branch carrying a heavy crop of the magnificent pods. Valuable for its productiveness and disease-resisting qualities. Has all the good features of the

Stringless Green Pod and is ready to use at about the same time.

Carton 10c; lb. 25c; 5 lb. \$1.00; 10 lb. \$1.75

**BONNER'S BEST PEAS—62 Days.** This new pea was originated in the northern part of Idaho. Very heavy yielder; heavy dark green foliage, sweet and produces over a long period. Height 16 inches. We consider this our best early wrinkled variety.

Carton 15c; 1/2 lb. 20c; lb. 35c.

## NEW GRASSES OF SPECIAL INTEREST

### MICHEL'S GRASS

Michel's Grass is a hybrid grass produced by a cross of winter wheat and wild rye grass. While this grass is a new production, it has been found to be very nutritious and well liked by live-stock when used either as hay or for pasture. In growth, it resembles that of winter rye. The seed also resembles rye and will produce about the same amount under similar conditions.

Plant from 15 to 20 pounds per acre.

The price for 1940 crop seed is 25c per pound.

Add postage on small orders.

Send in your orders early as the sales will be governed by crop returns and orders will be filled in rotation.

Write for full information on this wonderful new grass and for prices in quantity lots.

### SAND DROP-SEED GRASS

This grass is a native of the arid region of the Snake and Salmon Rivers in North Central Idaho. It has been under observation in that section for about 32 years, and in that time has spread naturally over large areas. It has the hardihood to thrive under severe conditions of drouth and heat. Everyone familiar with its habits are very enthusiastic about it for pasture use in extremely dry locations. It will pay to give it a tryout.

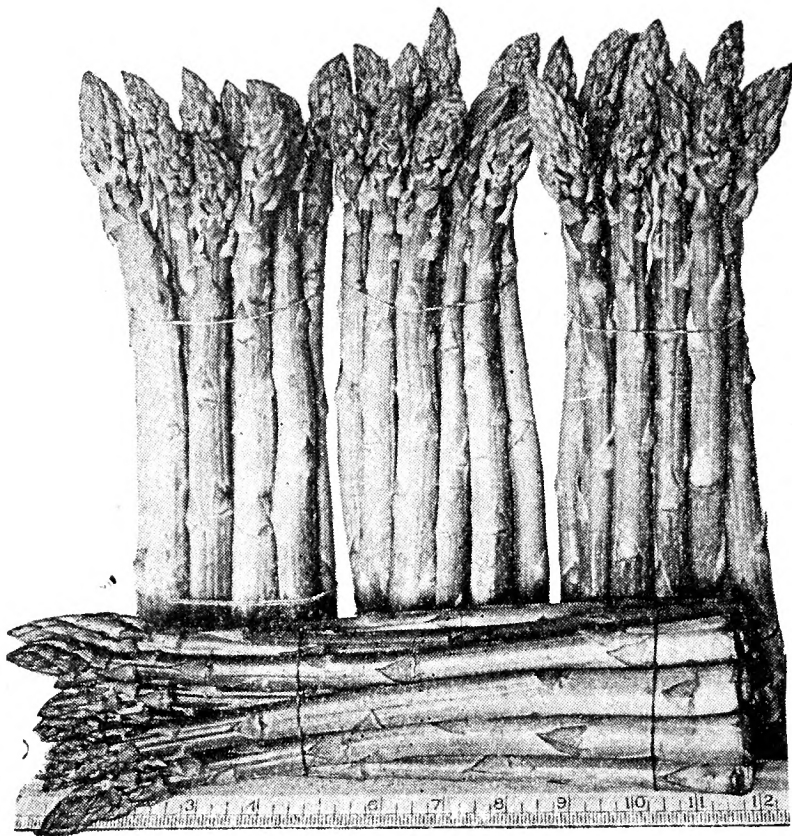
Sow 1 to 2 pounds per acre.

Price \$1.50 per pound.

Write for quantity prices.



# VEGETABLE SEEDS



## ASPARAGUS

1 oz. to 100 ft., 4 lbs. per acre.

When starting an Asparagus bed from seed, it is advisable to soak the seed for 24 hours before planting. This makes germination more rapid and certain. Sow in Spring in rows about 18 inches apart, allowing 15 to 20 seeds to the foot. Cover 2 inches deep. When plants are well established, thin to about an inch apart. Hoe frequently during the Summer. The plants will be ready to set in a permanent bed the following Spring.

**MARY WASHINGTON.** A strain selected from Martha Washington. It is a little earlier and more vigorous than the original. The shoots are slightly ovoid in shape, firm and tender and richly flavored. **Pkt. 5c; oz. 15c; 1/4 lb. 35c; 1 lb. \$1.00.**

## BEANS

**Dwarf beans, 1 lb. to 100 ft., 50 to 60 lbs. per acre.**

**Pole beans, 1 lb. to 100 ft., 30 to 35 lbs. per acre.**

**Lima beans, 1 lb. to 100 ft., 30 to 50 lbs. per acre.**

Plant Beans after all danger of frost is past, in warm, dry, well prepared soil. The rows should be 2 to 3 feet apart and the seeds covered 1 1/2 to 2 inches deep. Thin the young plants to 3 to 6 inches apart in the rows.

Shallow cultivation should be frequent until blossoming, then stop to avoid injury to the roots. Root injury causes the blossoms to fall off. For succession, plant every 2 weeks until midsummer. Frequent picking of the crop insures long bearing.

**Prices; Pkt. 10c; 1 lb. 25c; 10 lbs. \$2.00, except as otherwise noted.**

### Bush, Green Pod

**BOUNTIFUL.** An important early variety for the home garden or market garden crops. Plant is medium large, very prolific and thrifty. pods are flat, light green, stringless, slightly fibrous and of good quality. Seeds are of a yellow straw color.

**DWARF HORTICULTURAL.** Particularly desirable green shell and snap sort for home and market garden. Plant medium small, thrifty and productive. Pods dark green at snap stage, becoming greenish yellow splashed with carmine. 5 to 5 1/2 inches long. Strictly stringless, slightly fibrous. Seeds plump oval, pinkish buff, spotted and streaked with purplish red.

**STRINGLESS BLACK VALENTINE.** Improved type of Black Valentine producing pods entirely free from strings. Excellent shipping sort and adapted for market garden use. Plants large, thrifty and prolific, ripening in 53 days. Pods oval, straight or slightly curved; dark green and of very good quality. Seeds black.

**STRINGLESS GREEN POD.** High quality for home and market garden. Plant large, thrifty, heavily productive. Pods medium green. 5 1/2 inches long, almost 1/2 inch wide and equally thick. Very fleshy, strictly stringless, fine grained, tender. Seeds coffee brown.

**STRINGLESS REFUGEE.** Splendid canning variety; young pods particularly valuable for canning and pickling whole. Pods medium green; very uniform, 5 to 5 1/2 inches long. Round, absolutely stringless, very fleshy, brittle and fine grained. Seeds dark violet purple splashed with buff.

**TENDERGREEN.** This is a new bush Bean of utmost value. The plants make a strong and vigorous growth. They are well branched and carry a great quantity of beautiful light green beans. The bods grow 6 to 7 inches long. They are round, extremely meaty, and tender. Even when fully grown they are absolutely stringless.

**WHITE NAVY.** (The common white pea bean of commerce.) Ripe in 90 to 100 days. Plant large with tendency to form runners. Hardy, very prolific; ripens uniformly. Pods 4 inches long. Dry beans small, white.

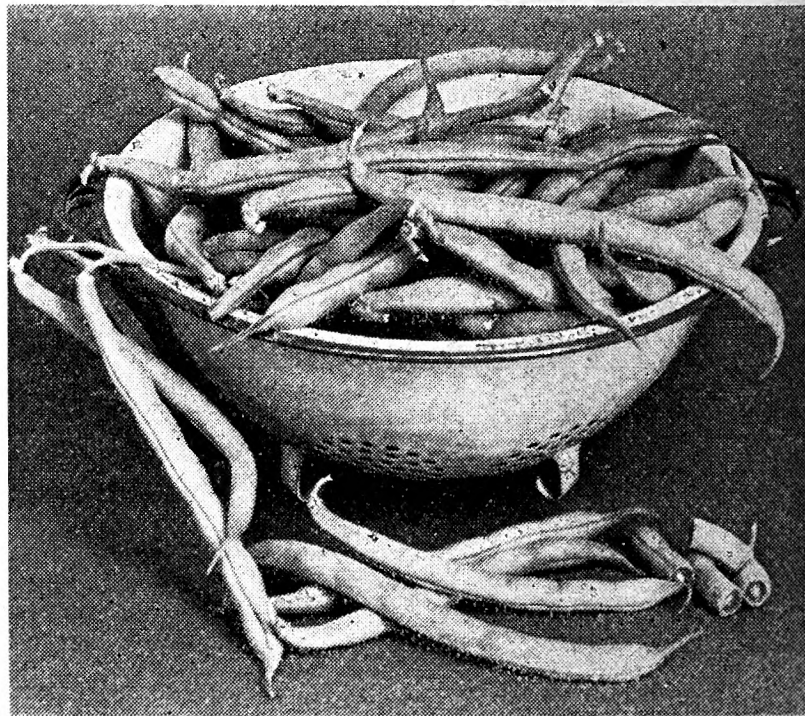
### Bush, Wax Pod

**DAVIS WHITE WAX.** Well adapted for shipping. Plant large and thrifty. Pods uniform and attractive. Light yellow. 6 inches long, 1/2 inch wide, thick, oval; fleshy and tender when young, but becomes somewhat fibrous and stringy. Seeds white and excellent for baking.

**IMPROVED GOLDEN WAX.** New blight resistant. A splendid home garden and canning variety. Plant small, productive. Pods very attractive; golden yellow; 4 1/2 to 5 inches long, 1/2 inch wide, thick, oval; fleshy, brittle, stringless. Seeds white, splashed with violet carmine and purple.

**PENCIL POD BLACK WAX.** Very desirable for home and market garden and for truckers. Plant large and thrifty. Heavily productive over long period. Pods handsome bright yellow. 5 1/2 to 6 inches long, 3/8 inch thick, cylindrical; very fleshy, stringless, brittle, fine grained, and tender. Quality unexcelled. Seeds black.

**ROUND POD KIDNEY WAX.** (Brittle Wax.) Valuable for home garden and canning. Plants are erect, medium large, prolific. Handsome pods of waxy light yellow, 5 1/2 to 6 inches long, thick and round. Very fleshy, brittle, strictly stringless and without fibre. Seeds white with brownish-black eye.



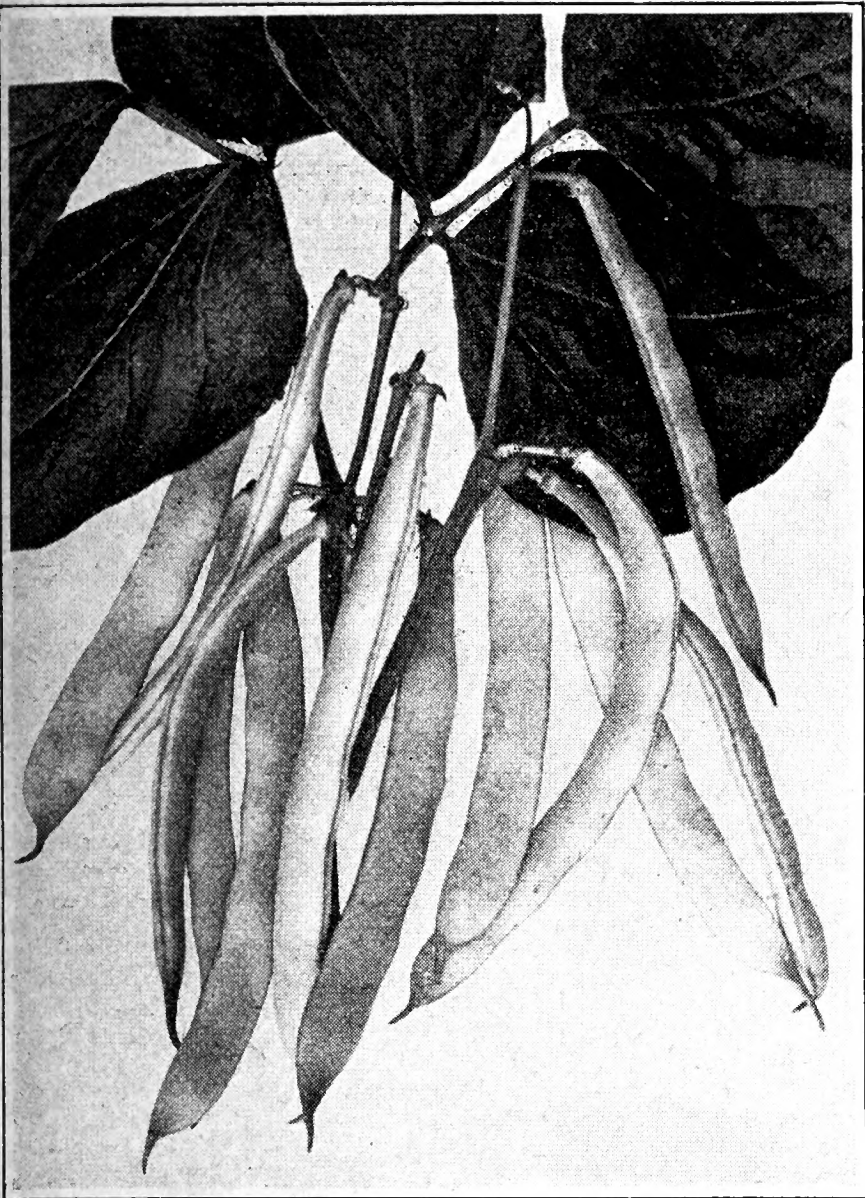
### Lima Beans, Dwarf

**HENDERSON'S.** Sometimes called the Baby Lima, and known in some sections as the Butter Bean. Plant is small, dark green, erect, bushy, and very early. Pods flat, green shelled beans flat, small and of excellent quality. **Pkt. 10c; 1 lb. 25c.**

**BURPEE'S IMPROVED BUSH.** Plants large, heavily productive. Pods large, 4 1/2 to 5 inches long. Usually contain 4 large, thick beans. Dry beans large, flat, greenish white. **Pkt. 10c; 1 lb. 25c.**

**ALL VEGETABLE SEEDS 5c PKT. UNLESS PRICED OTHERWISE  
PRICES SUBJECT TO CHANGE WITHOUT NOTICE**





### Pole Beans

Prices: Pkt. 10c; 1 lb. 30c.

**BLUE LAKE OR WHITE CREASEBACK.** Splendid snap bean for home garden and early market. Good climber, heavily productive. Pods light green, 5½ inches long, ½ inch wide, almost as thick; nearly stringless, very fleshy, brittle, tender. Seeds white; excellent for baking.

**KENTUCKY WONDER.** This most popular of all pole beans should be in every garden. The dark green pods are round and long, measuring 9 to 10 inches; they are always stringless as snaps, and never become tough. Seeds light brown colored.

**KENTUCKY WONDER WAX.** An early and hardy bean somewhat resembling the Kentucky Wonder except in color of pods, which are light yellow and broader. If a wax podded bean is desired for home or market this is the one best variety to plant. Seed oval, flattened, somewhat shriveled, dark brown.

**OREGON GIANT GREEN POD.** We highly recommend this variety to home gardeners. It keeps producing until killed by frost. Large, fleshy pods, 10 to 12 inches in length, stringless, light greenish yellow, splashed with red. A very tasty bean that requires very little care. Pkt. 10c; 1 lb. 40c.

**OREGON POLE LIMA.** Proven over many years to be well adapted to our cool Northwest climate. A strong, vigorous grower, bearing continuously until frost. Pods are at their best when turning yellow.

**SCARLET RUNNER.** About in season with pole limas. Good climber. Flowers scarlet, decorative. Pods dark green; 6 inches long; flat, oval. Fleshy; desirable for snaps and green shell beans. Seed kidney shaped, flat; dark purple, spotted with reddish buff. Pkt. 10c; ½ lb. 25c; 1 lb. 45c.

**FALL HORTICULTURAL.** The pods when young are of excellent quality and make fine snapshorts. They measure 5 to 6 inches long and are stringless. The dried beans are brown extensively for winter use. They are large, of a light fawn color, speckled with dull red. Highly recommended as baking bean.

### BEET

1 oz. to 100 ft., 8 to 14 lbs. per acre.

Seed should be sown at the rate of one ounce to 100 feet of row. The rows should be spaced 14 to 24 inches apart. Work the soil well and cover the seeds about an inch deep. A rich sandy loam is most favorable, but nearly all types of soil will produce Beets if sufficiently fertilized and properly tilled, all varieties of Beets sell for: Pkt. 5c; 1 oz. 10c; ¼ lb. 25c; 1 lb. 75c.

**DETROIT DARK RED.** The standard of excellence in table Beets for home and market garden, for shipping, and for canning. Tops uniform, small, slender erect. Roots globe shaped; symmetrical, with small collar and small tap-root. Very dark blood red.

**EARLY WONDER.** Very desirable for home and market garden. Tops small. Root flattened globe shape with small collar and tap-root. Dark purplish red. Flesh deep purplish red zoned a lighter shade.

**EXTRA EARLY FLAT EGYPTIAN.** Best for forcing and particularly valuable for early market. Tops small and upright. Roots flattened, with long slender tap-roots. Flesh dark purplish red zoned lighter.

### SWISS CHARD

1 oz. to 100 ft., 6 to 10 lbs. per acre.

Only the tops of this Beet are used, like spinach, and the succulent stalks and midribs may be prepared in the same way as asparagus. The plants are cultivated like Beets except that they should be thinned to 8 to 10 inches apart. Pkt. 5c; 1 oz. 10c; ¼ lb. 25c; 1 lb. 75c.

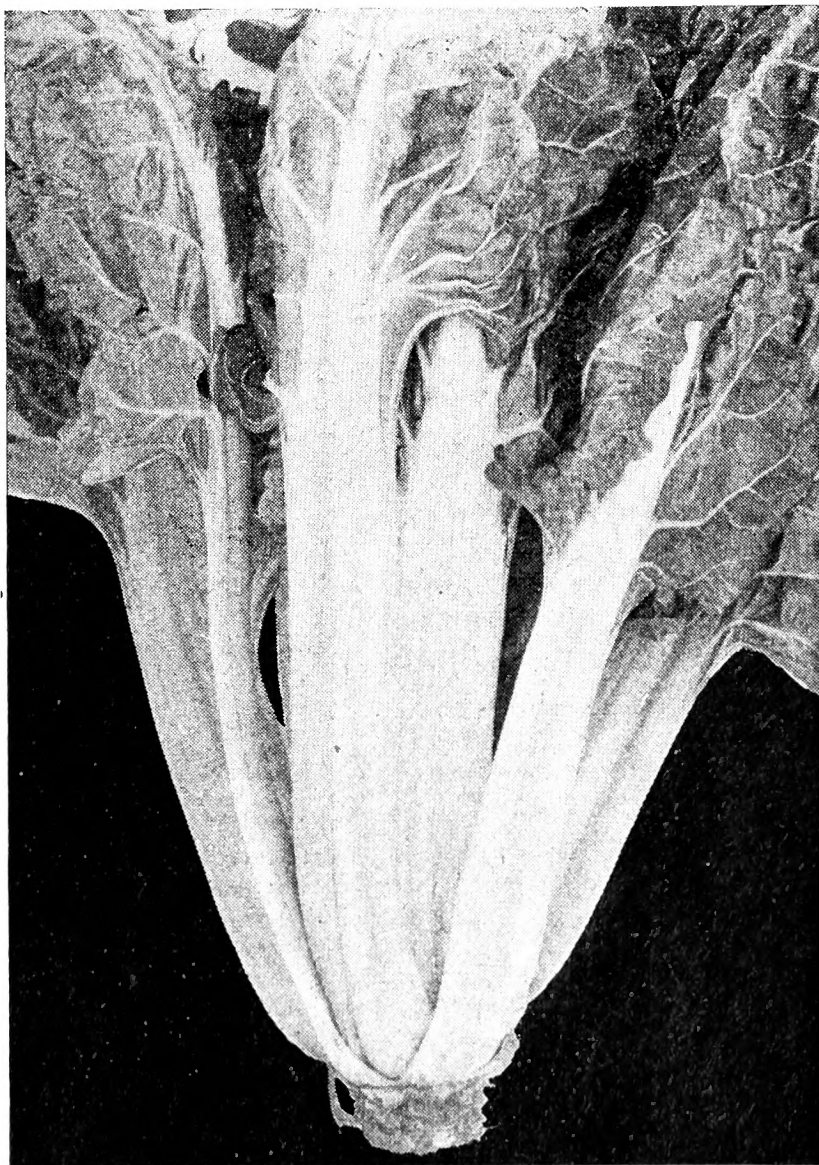
**LUCULLUS, DARK GREEN.** The fleshy crumpled leaves of this variety make very choice greens. Plant erect; stalks rounded and finely ribbed. Foliage a rich deep green.

### SUGAR BEET

1 oz. to 100 ft., 6 to 10 lbs. per acre.

Sugar Beets are desirable not only for sugar making but for stock feeding, and when small they may be used for the table. The soil producing best results is a rich, friable sand or clay loam. Cultivation is the same as for Mangel Wurzel. Pkt. 5c; 1 oz. 10c; ¼ lb. 25c; 1 lb. 75c.

**KLEIN WANZLEBEN.** The most desirable Beet for sugar manufacture. Valuable for stock feeding. Roots medium large. 12 to 15 inches long, 3½ to 4 inches at shoulder, tapered; white, with a tinge of gray; very rich in sugar content. Good keeper.





## MANGEL WURZEL

1 oz. to 100 ft., 6 to 10 lbs. per acre.

Valuable as stock feed. Plant early in the Spring in rows 2½ feet apart. The seeds should be 1 inch apart in the row and covered by 1½ inches of soil firmly pressed down. Cultivate frequently. When the plants are 3 inches high, begin to thin until the roots are 10 inches apart. All varieties of Mangels: **Pkt. 5c; 1 oz. 10c; ¼ lb. 20c; 1 lb. 50c.**

**DANISH SLUDSTRUP.** Very high yielder. Roots long oval, orange colored; flesh white with faint yellow tinge.

**GIANT HALF SUGAR.** This variety is one of the favorites among the dairymen and hog raisers. It is very sweet and nutritious, as it has a larger sugar content than the ordinary Mangel.

**GOLDEN TANKARD.** Heavy cropper; easily harvested. Roots large; thick oval, nearly cylindrical; light gray above, deep orange below ground. Flesh yellow with white zones.

**MAMMOTH LONG RED.** Superior to strains offered as Norbiton Giant, Colossal, Monarch, etc. Roots very large; long spindle shape, straight and thick; grow one-third to one-half out of ground. Light red; flesh white tinged with rose.



## CABBAGE

½ oz. to 100 ft., 4 oz. per acre.

For plants of early kinds, sow seed in January under glass, and put out into flat about 2 inches apart. Transplant to open ground as early in the Spring as the soil can be prepared, setting 1½ to 2 feet apart, in rows, which should be 3 feet apart. Cultivate frequently, and during dry weather water copiously. Late Cabbage seed should be sown in drills in open ground during April and May, and transplanted in June or July. Fertilize heavily, using 400 pounds nitrate of soda per acre in three dressings, one-third when plants are set out, and two thirds a month apart later. **Pkt. 5c; 1 oz. 25c; ¼ lb. 75c; 1 lb. \$1.75.**

### EARLY VARIETIES

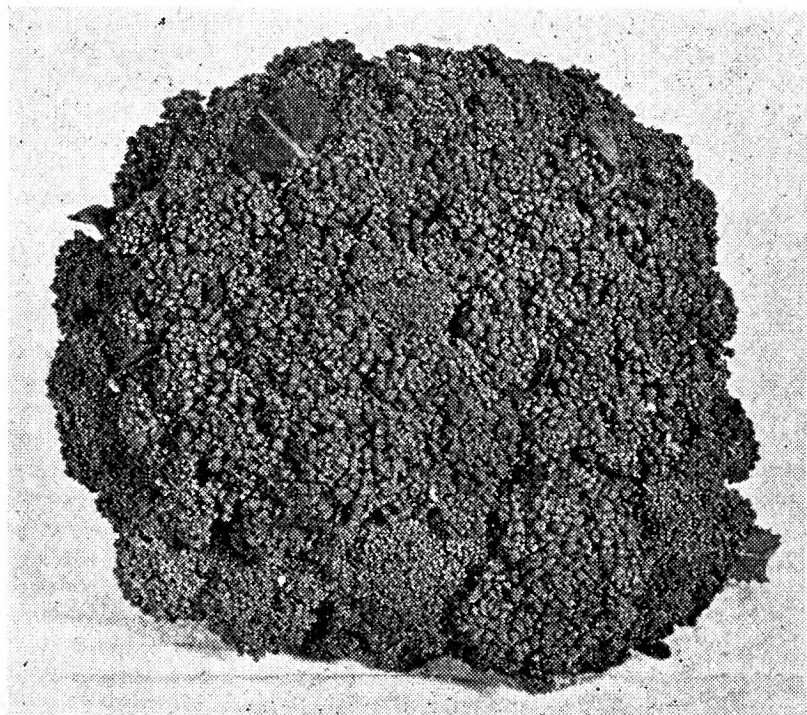
**COPENHAGEN MARKET.** Distinctly and uniformly early. Splendid for early market and shipment; proving valuable as early kraut variety. Plants small, compact, allowing very close planting. Stem short; heads uniformly round; firm; become 6 to 7 inches in diameter. Weight, 3½ to 4 pounds. Interior clear white and of excellent quality.

**EARLY JERSEY WAKEFIELD.** Extremely early variety, very valuable for home and market garden as well as for shipment. Plants very small and compact, allowing close planting; stem short. Heads firm and conical; usually 7 inches long; 5 inches thick near base; weight, 2 to 2¼ pounds.

**GOLDEN ACRE.** The earliest round headed Cabbage; especially valuable for early market and shipping. Plants very small and compact; stem short. Heads uniformly round; firm, commonly 6 inches in diameter and weight 3 pounds. **Pkt. 10c; oz. 35c; ¼ lb. 90c.**

### LATE VARIETIES

**DANISH BALL HEAD.** With the exception of Hollander, this is the best late Cabbage. The plants are medium sized with short stem. Heads large; flattened globe shape; become 8 to 9 inches across, 6 to 7 inches deep, and weigh 7 to 9 pounds. Very firm and solid; of excellent quality; keep perfectly in storage until late Spring.



## BROCCOLI

½ oz. to 100 ft., 4 oz. per acre.

This is similar to Cauliflower in color, character of foliage, form, and size of heads. It requires a long growing season and is especially suited to Pacific Coast states. **Pkt. 5c; 1 oz. 90c; ¼ lb. \$3.00.**

**ITALIAN GREEN SPROUTING.** This vigorous plant is entirely different from the white heading sorts. Cultivated like cabbage, it bears a succession of sprouting heads which, if kept cut, will be replaced by others for 8 to 10 weeks. Each sprout, about 5 inches long, ends in a small head of deep green buds. It is one of the most delicious green vegetables.

**ST. VALENTINE.** Standard market variety for March shipment. Plants large. Heads large, solid, white, and very well protected.

## BRUSSELS SPROUTS

½ oz. to 100 ft., 4 oz. per acre.

Small shoots like miniature cabbages clustered around a stem are the valuable part of this unique member of the cabbage family. They are successfully grown wherever conditions are favorable for late cabbage and require the same method of culture. They mature best in the Autumn after the weather becomes cool. **Pkt. 5c; 1 oz. 45c.**

**DWARF IMPROVED.** Plants dwarf and compact. 20 inches tall. Very uniform; stem well covered with firm, round cabbage-like balls of 1¼ to 1½ inches in diameter which mature in succession.





## CABBAGE (Continued)

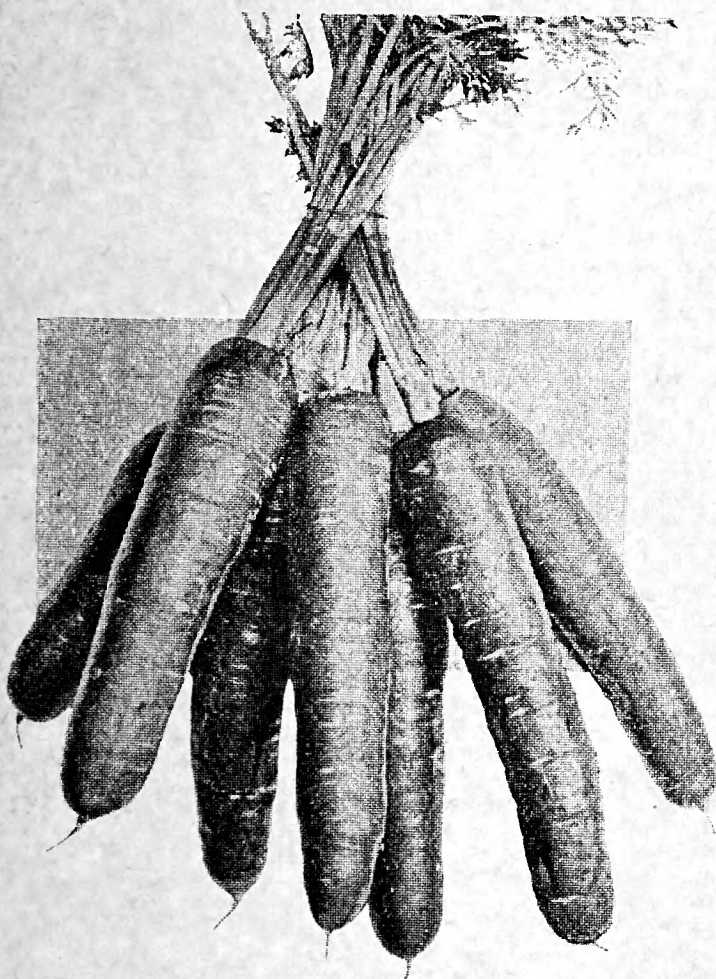
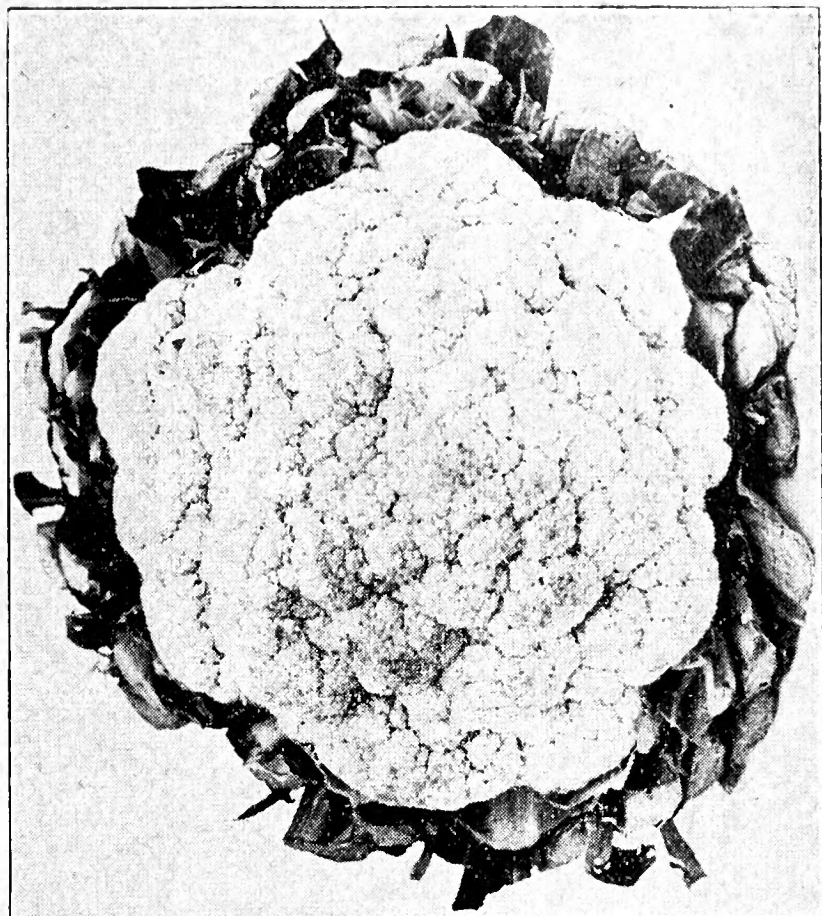
**LATE FLAT DUTCH.** The best very large, late Cabbage. Popular for home and market garden. A good keeper. Heads very large and flat, but deep; become 12 to 14 inches across, 7 inches deep, and weigh 12 to 14 pounds or more; firm and of good quality.

**MAMMONT RED ROCK.** A sure cropper and used very extensively for pickling. The solid heads are borne on medium-length stems and are red throughout. Perfectly round, solid as a rock, and quite large, often weighing 6 to 8 pounds each. The latest of the Red Cabbages.

**SAVOY.** Enjoys great popularity on account of its tasty flavor, which is sweeter and more delicate than that of ordinary Cabbage. The large round heads are somewhat flattened and very heavy. The deep green, crinkled outer leaves enclose the tender, light green heart. It matures late in the fall and will keep all winter.

## Chinese Cabbage

**CHINESE IMPROVED OR WONG BOK.** This exceptionally fine vegetable is rapidly growing in public favor. Its growth, which resembles the Cos lettuce, has long heads and crisp leaves. Very mild and pleasant flavor served as a salad or cooked.



## CARROTS

1/2 oz. to 100 ft., 30 to 4 lbs. per acre.

Sow seeds in light sandy soil, from April to July, in drills 1 1/2 feet apart, covering the seed 1/2 inch deep. Thin out the young plants from 3 to 5 inches apart, according to size of variety. Cultivate freely and do not allow the soil to get too dry during hot weather. All varieties of Carrots: **Pkt. 5c; 1 oz. 15c; 1/4 lb. 35c; 1 lb. \$1.00.**

**CHANTENAY, IMPROVED.** Flesh is a deep golden orange color, always smooth and fine in texture, very tender. Excellent bunching variety and grown exclusively by market growers. Medium early.

**DANVER'S HALF LONG.** The roots are a rich dark orange color and by reason of its symmetrical shape, which is long and pointed, it makes an excellent bunching variety. It has proved over a period of years to be the most popular Carrot, both with the grower and the shipper.

**NANTES CORELESS.** Excellent for forcing, as well as for home and market garden use. Tops very small. Roots bright orange, cylindrical, blunt tipped. Flesh reddish orange, crisp, tender and of very delicate flavor. Practically coreless.

**IMPERATOR.** This Carrot grows to a length of 6 to 7 inches with a shoulder diameter of 1 1/4 to 1 1/2 inches and is a deep orange color. It has a smooth crown; does not have undesirable side shoots; has a fine texture, and is good and sweet. In all respects it is very attractive for shipping purposes. **Pkt. 5c; 1 lb. \$1.00.**

**OXHEART.** Beautiful shape and color. The roots generally attain 4 to 5 inches in length, and about 3 inches in diameter. Quality first rate, very tender, and a variety that is used in quantity.

**LONG ORANGE.** A heavy cropper on light soils; much grown for stock as well as for table use. Roots scarlet-orange; 10 to 12 inches long, 2 inches thick at the top; tapered, pointed.

## Stock Carrots

**Pkt. 5c; 1 oz. 15c; 1/4 lb. 35c; 1 lb. 90c.**

**WHITE BELGIAN.** A late variety, an excellent keeper and a very heavy yielder. Principally grown for stock feed, it will yield as much as 40 tons per acre. Roots are 7 to 8 inches long, 3 inches across at the top, tapered and pointed.

**YELLOW BELGIAN.** A very productive variety, with roots measuring 20 inches long. They are broad at the shoulder, and gradually taper to a fine point. The skin below the ground is a light orange, but above the soil surface it is green. Will yield heavily, particularly on good deep soil.

## CAULIFLOWER

1/2 oz. to 100 ft., 4 oz. per acre.

The same methods that produce good Cabbage will grow good Cauliflower. The only great difference is that Cauliflower heads must be protected from sunlight so as to make sure of the desirable white curd. Gather the tops of the leaves together loosely as soon as the heads begin to form. In shutting of the light, it is important not to cramp the heads.

**DANISH GIANT, DRY WEATHER.** One of the most dependable in adverse, dry weather. Plants dwarf, short stemmed; larger than Early Snowball. Heads large, 6 to 7 inches across, commonly weigh 2 pounds. White with tinge of cream; of splendid quality. **Pkt. 5c; oz. \$1.50; 1/4 lb. \$5.00.**

**EARLY SNOWBALL.** The best for greenhouse forcing, early market, and shipping. Plants very dwarf. Heads snow white; deep, smooth, compact; about 6 inches across, weight 1 1/2 to 2 pounds. The standard of excellence in Cauliflower. **Pkt. 10c; oz. \$1.75; 1/4 lb. \$5.50.**

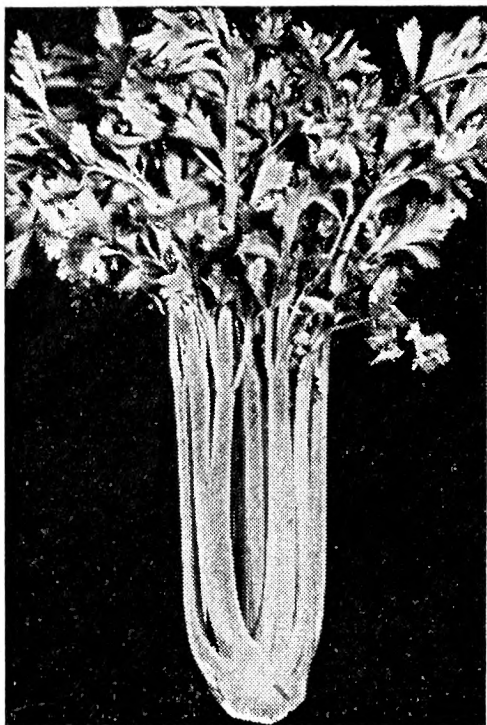
**MT. HOOD SNOWBALL.** One of the best early varieties. Pure white, fine quality heads of medium uniform size. Exceedingly tasty. Popular with both home gardeners and market gardeners. **Pkt. 5c; oz. \$2.00; 1/4 lb. \$6.50.**



## CELERY

1/4 oz. to 100 ft.,  
4 oz. per acre.

Sow from February to May in drills 1 foot apart. Later, usually in June, transplant to rows 3 feet apart and 6 inches apart in row. Rows should be furrowed out so plants may be set 6 in. deep. Later, soil may be banked against rows for blanching, even so-called self-blanching varieties needing the cool, moist soil to render the stalks crisp and tender, but this should not be done until a few weeks before harvesting. One ounce of seed will produce 5000 plants.



**GOLDEN PLUME OR WONDERFUL.** Early and very desirable for home and market garden. Plants medium sized; stocky, full hearted, and compact. Thick solid stalks blanch readily and are of the finest table quality. Pkt. 5c; oz. 75c; 1/4 lb. \$2.25.

**GOLDEN YELLOW SELF-BLANCHING.** Early and particularly desirable for home and market garden. Plants fairly tall and compact with firm stalks, 26 to 28 inches tall, which blanch readily and are of splendid quality. Pkt. 5c; oz. 75c; 1/4 lb. \$2.25.

**WHITE PLUME.** Valuable for early market. Foliage green, tinted white. Stalks and foliage blanch very readily to snowy white. Pkt. 5c; oz. 25c; 1/4 lb. 60c.

**UTAH JUMBO WINTER.** A remarkable late Celery of the finest quality. Plants sturdy, compact and solid. Very free from strings. Light green in color; nutty flavor. Pkt. 5c; oz. 75c; 1/4 lb. \$2.25.

## CELERIAC

1/4 oz. to 100 ft., 4 oz. per acre.

Sow seed at the same season and give same treatment as common Celery. Transplant to moist, rich soil, in rows 2 feet apart and 6 inches apart in row. Give thorough culture. It is not necessary to earth up or handle the plants. After the roots have attained a diameter of 2 inches, they are fit for use. Pkt. 5c; oz. 25c; 1/4 lb. 75c.

**LARGE SMOOTH PRAGUE.** An improved variety of turnip-rooted Celery producing large tubers of nearly globular shape and comparatively smooth surface.

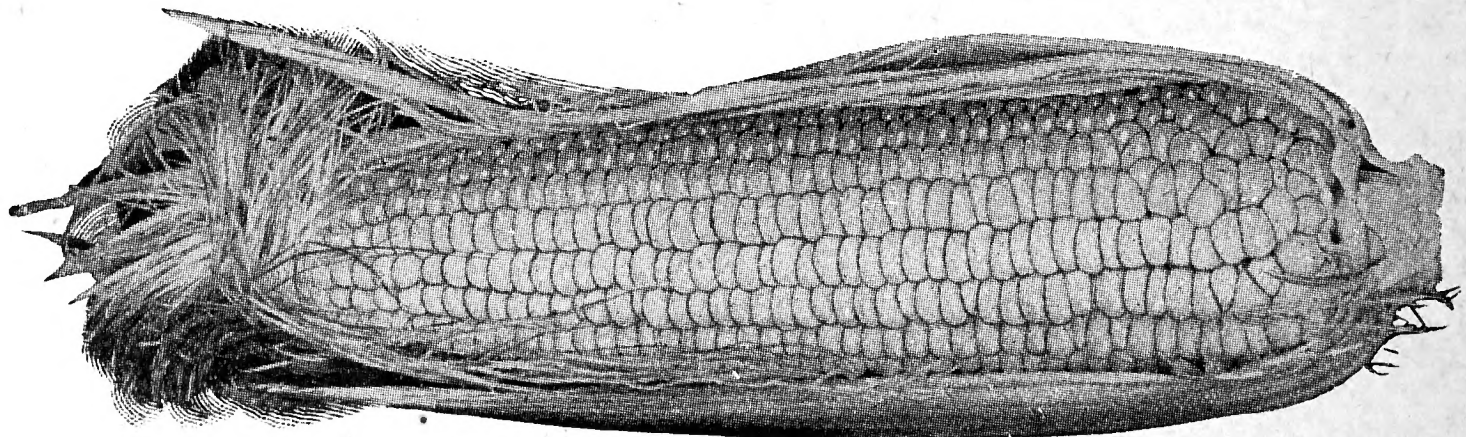
## CORN

Sweet corn, 8 oz. to 100 ft., 10 to 14 lbs. per acre.

Popcorn, 6 oz. to 100 ft., 6 to 8 lbs. per acre.

Salad corn, 4 oz. to 100 ft., 10 to 12 lbs. per acre.

Plant in rich, warm soil, in hills 2 to 3 feet apart, in rows 3 feet apart for early kinds and 4 feet apart for late sorts. Make first sowing about the Middle of May and continue fortnightly up to about the middle of July. Pkt. 10c; 1 lb. 25c; 10 lbs. \$2.00.



## Early Sorts

**GOLDEN BANTAM IMPROVED.** A selection from the original strain of Golden Bantam. Larger ears, more rows of kernels, greater production. Golden yellow, deep, wide, tender kernels with a fine, sweet flavor. Particularly desirable for canners and market gardeners. Remains in table condition a long time.

**GOLDEN EARLY MARKET.** One of the best extra early yellow varieties for home and market garden. Ears have strong husks and 8 to 12 beautiful tender rows to each ear. Kernels golden yellow, medium, sweet and of good flavor. Very prolific.

**GOLDEN SUNSHINE.** A very fine early variety. Good sized ears with 10 to 12 rows of medium broad, golden yellow kernels. Sweet and tender. Particularly desirable for market garden use.

**EARLY EVERGREEN.** A distinct new sugar Corn of the evergreen type. The stalk grows 8 to 9 feet high. It withstands drought unusually well and holds its edible quality better than most varieties. One of the best canning varieties and very popular with market gardeners. Ears have 14 to 18 rows of deep ivory white kernels that are sweet and tender.

## Intermediate and Late Sorts

**GOLDEN CROSS BANTAM.** Very uniform in habit of growth, size, and maturity. The ears measure 8 inches long and they are closely set with 14 rows of light yellow grains filled with delicious sweet pulp. Bears two ears per plant.

**GOLDEN GIANT.** This is the giant among the yellow varieties with ears measuring 8 inches long. Matures its handsome ears about a week after Golden Bantam. Each cob is tightly set with 12 or 14 rows of sugary, creamy, yellow kernels covered by a thin tender skin.

**COUNTRY GENTLEMAN.** A delicious sweet corn of excellent quality. Widely used by canners and very desirable for private family use. Stalk often has two ears. Cob is small, giving great depth to kernels, which are slender with tender hull and set irregularly without row formation.

**STOWELL'S EVERGREEN.** One of the best late varieties. Large ears about 8 inches long. Kernels clear white, deep, rather broad, very sweet and tender. 16 to 20 rowed; uniform. Holds well in prime condition at eating stage. Stalk sturdy and erect. Highly desirable for home and market gardeners.

## Field Corn

8 to 10 lbs. per acre.

Write for Prices.

**MINNESOTA "13" YELLOW DENT.** An early maturing yellow dent corn that is a favorite in all the corn growing sections west of the Rockies. More of it is being grown than all other varieties combined. The stalks are of medium size, the ears 9 to 11 inches long.

**PRIDE OF THE NORTH.** An early maturing, long-kerneled yellow sort that we recommend for any corn district west of the Rockies. The stalks are larger than those of Minnesota "13" and the kernels deeper.

## EGGPLANT

1/4 oz. to 100 ft., 5 to 6 oz. per acre.

Sow in mild heat, about the middle of March, and transplant on June 1, setting the plants 2 1/2 feet apart. Pkt. 5c; oz. 65c; 1/4 lb. \$2.00.

**BLACK BEAUTY.** The fruits of this variety are large and symmetrical. Retains its glossy black-purple coloring for a long time. This lasting quality makes it distinctly popular.

**IMPROVED LARGE PURPLE.** The standard home and market sort. Plants are large, 30 to 36 inches tall. Very productive, commonly bearing 4 to 6 or more large, handsome, dark purple, symmetrical, broad, egg-shaped fruits.



## CUCUMBER

1 oz. 100 ft., 3 to 4 lbs. per acre.

Sow outdoor varieties early in Spring, in hotbeds, and transplant to open ground when weather is suitable. For later crop, sow seed when weather becomes settled, in hills 4 to 6 inches apart. They require a warm, rich soil, and should be watered liberally. **Pkt. 5c; oz. 20c; 1/4 lb 50c; 1 lb. \$1.50.**

**LONGFELLOW.** A very desirable variety for the home garden and for shipping. Fruits weigh 2 1/2 pounds, are from 12 to 15 inches long, dark green, uniform, straight and attractive.

**KLONDIKE.** Medium early. Fruits handsome; very dark green, white spined; 7 to 8 inches long, slightly tapered. Flesh is waxy, white, crisp, and of excellent flavor. A favorite variety among market gardeners; desirable for shipping.

**IMPROVED LONG GREEN.** This is a great improvement over the old strain of Long Green. The fruits are unusually handsome, being of good form and of a deep green color, which is retained a considerable time after picking. 9 to 10 inches in length.

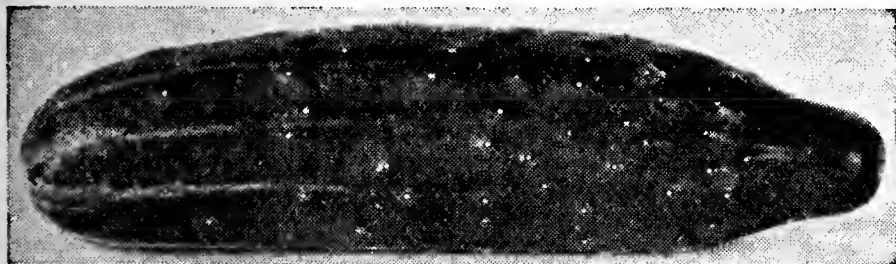
**CLARK'S SPECIAL or IMPERATOR.** An outstanding variety for shipping and for market gardeners. Holds its color and firmness when shipped long distances. Fruits weigh 2 1/4 lbs. Very dark green, slightly tapered at both ends. Flesh crisp and firm; few seeds. Remains edible for a long time.

**STRAIGHT-8.** An outstanding new variety producing symmetrical, cylindrical fruits about 8 inches long and 1 1/2 inches in diameter. Fruits are well rounded at the ends and when ripe are deep green and free from objectionable striping or tipping. Ideal for home or market garden.

**BOSTON PICKLING.** An early pickling or slicing variety. Fruits weigh about 1 1/2 pounds, 6 inches long and 2 1/2 inches in diameter.

**LEMON.** The vines produce prolifically, dainty little cucumbers resembling lemons in both form and color and having a delicious and distinctive flavor. A popular variety for the home garden. Fine for preserves or sweet pickles and considered superb as a salad.

**CHICAGO PICKLING.** A well known pickling variety. Uniform and attractive; also good for slicing. Fruits medium green, nearly square ended; heavily spined at pickle size. Largest in size of pickling sorts. Very prolific.



## ENDIVE

1 oz. to 100 ft., 4 to 5 lbs. per acre.

Sow about the middle of April, in rows 1 1/2 feet apart, and thin about to about 9 inches apart. **Pkt. 5c; oz. 15c; 1/4 lb. 50c.**

**BROAD-LEAVED (ESCAROLLE).** Leaves long, broad, and succulent. Fine for Winter salads and cooking.

**GREEN CURLED.** Standard variety for Fall and Winter crop.

## KOHL RABI

1/2 oz. to 100 ft., 4 to 5 lbs. per acre.

The delicious flavor of this turnip-shaped bulb combines both Cabbage and Turnip. As early in Spring as possible, sow the seed in light rich soil in rows 1 1/2 feet apart. When plants are well established, thin to 6 inches apart in the row. **Pkt. 5c; oz. 20c; 1/4 lb. 65c.**

**EARLY PURPLE VIENNA.** Standard early sort. Plants small; leaves dark green and profuse purple staining. Bulbs flattened globe shape, best for use when 2 to 2 1/2 inches in diameter, but become larger; exterior purple; but flesh white; mild, crisp, and tender.

**EARLY WHITE VIENNA.** For forcing. The best table sort if used when the bulbs are 2 inches in diameter. It matures very early and produces medium sized, light green bulbs with white flesh of excellent quality.



## Kale, Borecole

1 oz. to 100 ft., 4 to 5 lbs. per acre.

The culture is practically the same as that of late Cabbage, but as the plants will withstand several degrees of frost they can grow late into the Fall. Many think Kale best after the first heavy frosts. **Pkt. 5c; oz. 15c; 1/4 lb. 45c; 1 lb. \$1.25.**

**DWARF GREEN CURLED SCOTCH.** Plants have wide-spreading, finely furled blue-green plume-like leaves. Relished as a vegetable green and useful as an ornament.

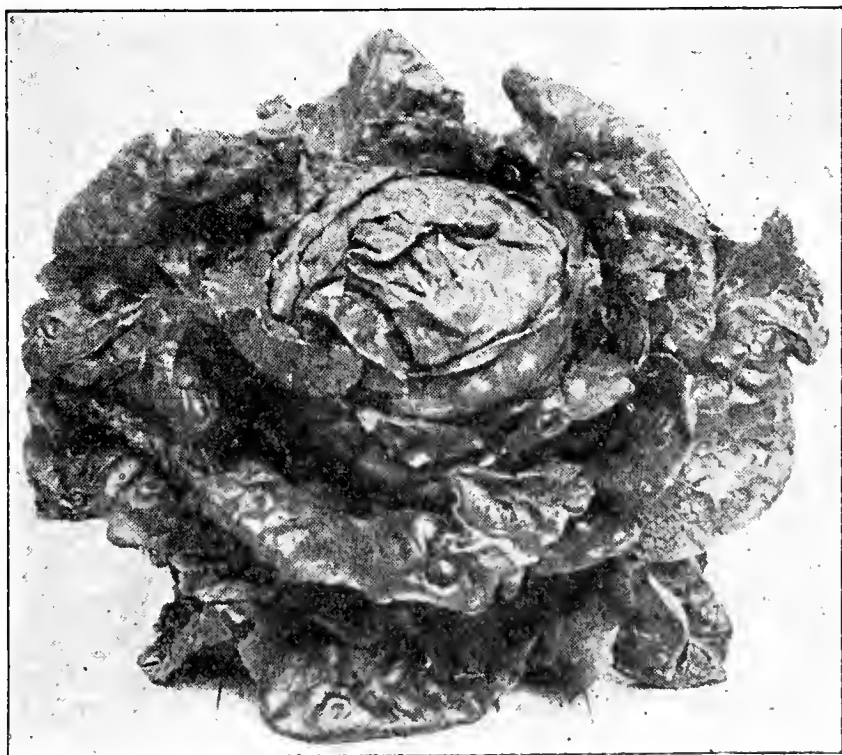
**TALL GREEN CURLED SCOTCH.** Hardy plants with leaves deeply cut. Curled at the edges, light green in color; very tender and finely flavored after touched with frost.

**JERSEY OR THOUSAND HEADED.** Called Chicken or Cow Kale. Vigorous branching plants with enormous Cabbage-like leaves. Relished by poultry and livestock as Winter greens. **Pkt. 5c; 1 oz. 10c; 1/4 lb. 20c; 1 lb. 60c.**

## LETTUCE

1/2 oz. to 100 ft., 3 lbs. per acre.

Sow the seed in hotbeds during February until the middle of March, afterward transplanting into flats or coldframes, leaving about 6 to 8 inches between the plants. As soon as weather becomes suitable, transfer to open ground and set out in rows 1 foot apart, leaving 9 inches between the plants in the rows. **Pkt. 5c; oz. 15c; 1/4 lb. 40c; 1 lb. \$1.25.**



## LETTUCE—Continued

**NEW YORK NO. 12.** A comparatively recent selection of the New York type; an early variety and does well in midsummer. It is lighter in color than the regular New York and is popular with shippers and large growers.

**NEW YORK NO. 515 IMPROVED.** A development from Number 12, matures slightly earlier and should be grown where there is hot weather as it is resistant to tip-burn.

**SIMPSON'S EARLY CURLED.** Widely used for home gardens. Early, hardy, and dependable; non-heading with large crumpled, frilled leaves, forming a compact bunch at center of plant. Light green in color. Tender and sweet.

**GRAND RAPIDS.** Very early. Hardy, disease resistant; the most widely used and best adapted variety for greenhouse forcing. Plants large, upright, compact, and handsome; bright solid light green; leaves large, broad; margin much frilled; very tender and sweet when grown under glass.

**HANSON.** A very hardy Lettuce, excellent for a Summer crop as it withstands heat. Forms a large, light green head, which is very hard. An excellent variety for the home gardener for it is very sweet, crisp and tender.

**RED LEAF PRIZE.** An early non-heading sort, very desirable for home garden use. Plants of medium size, crisp and tender; color medium green with brownish-red edges on outer leaves.

**CHICKEN LETTUCE.** This is a non-heading Lettuce, quite different from those used for human food. The plants grow 4 ft. tall before they run to seed. It is ready for cutting in 45 days after sowing. Planted extensively for feeding poultry and rabbits.

## MUSKMELON

1 oz. to 100 ft., 3 to 4 lbs. per acre.

In sections where the Summers are short, seed can be planted indoors or in hot beds in small boxes. The young plants can be transferred to the garden when danger of frost is past. If practicable, spade in a liberal forkful of well rotted manure at the bottom of each hill. The rows should be at least 6 feet apart and the hills 3 feet apart in the rows. In general, the culture is the same as that for cucumber. **Pkt. 5c; 1 oz. 15c; 1/4 lb. 35c; 1 lb. \$1.25.**

**HEARTS OF GOLD.** This popular medium sized melon follows the earlier varieties. It is fine to plant for succession as it ripens in about 100 days. The fruits are 5 to 6 inches in diameter. The smooth orange salmon flesh is exceptionally thick and fine flavored.

**HALE'S BEST No. 45.** The No. 45 is a true Hale's Best, mildew resistant. An early variety. Oval shape, medium sized melon with heavy net and a faint stripe. Flesh is deep salmon, thick, and firm with small seed cavity.

**CASABA.** The Casaba is rapidly taking its place as a melon for the late season after the Muskmelons are past. Fruits

are medium, large, globe shaped, weigh 6 pounds, outer color golden yellow, surface wrinkled. Flesh white, luscious and spicy. **Pkt. 5c; oz. 15c; lb. 40c.**

**HONEY DEW.** A very fine melon. Fruits large, globular, weigh 5 to 7 pounds. Surface is smooth, hard, with practically no netting, creamy white. Flesh is light emerald green, thick ripening to the rind; juicy and tender, with a distinct sweetness not found in other melons. **Pkt. 5c; oz. 15c; 1/4 lb. 40c.**



## WATERMELON

1 oz. to 100 ft., 3 to 4 lbs. per acre.

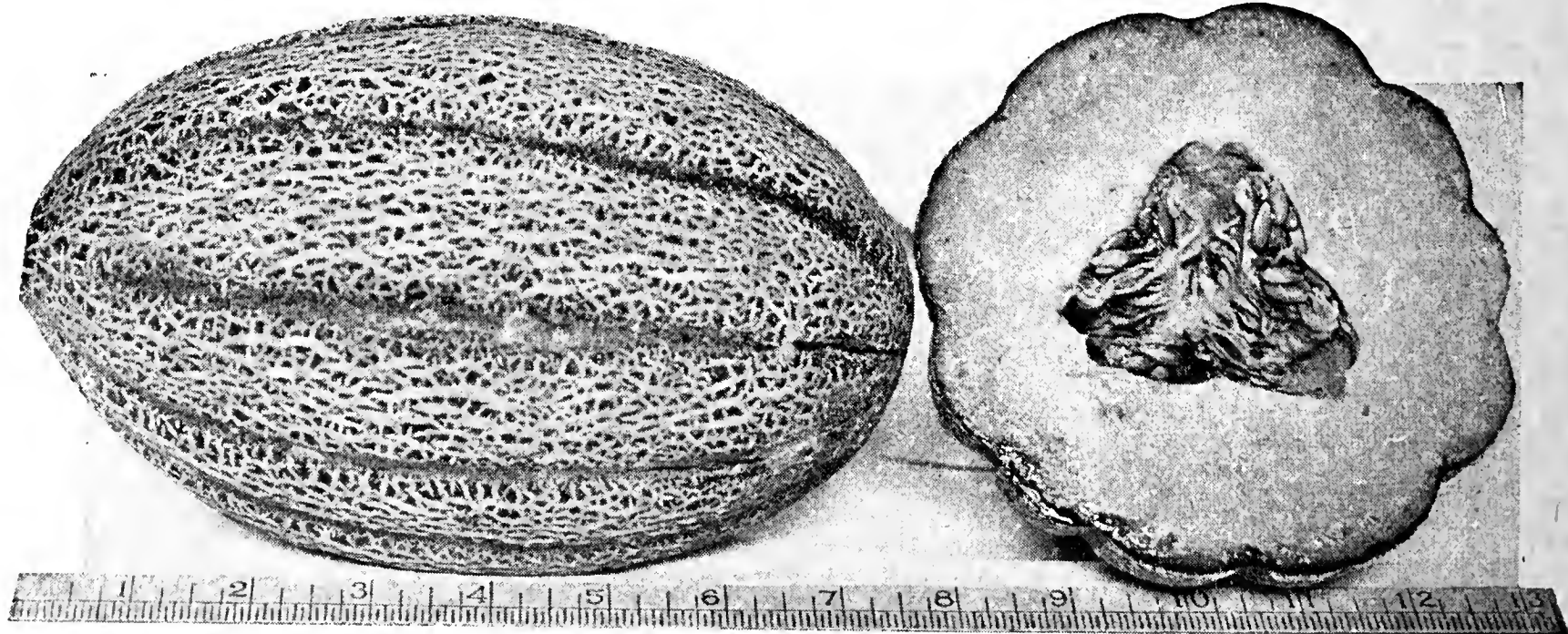
Rich, rather sandy soils produce the finest crops of Watermelons, but a well-drained loam, especially with a southern exposure, is also suitable. Place 6 to 8 seeds in a circle in each hill, and cover 1/2 inch deep with fine soil. One ounce will plant 20 to 25 hills; 3 to 4 pounds per acre. **Pkt. 5c; oz. 15c; 1/4 lb. 30c; 1 lb. \$1.00.**

**BLACK-SEEDED ICE CREAM.** The melon is almost round, with a thin rind of medium green. The inside flesh is pink and exceptionally sweet and fine flavored. This variety matures early and is a fine keeper.

**KLECKLEY SWEET.** A medium size melon, rind very green and flesh deep red. Delicious flavor. An excellent melon for either home garden or shipping. Weighs about 30 pounds.

**KLONDIKE BLACK SEEDED.** An early sort, a good shipper and popular in Western home gardens. Fruits oblong, slightly tapered, medium sized with slight ribs; rind medium hard. Flesh bright deep red, very sweet; unequaled eating quality.

**STRIPED KLONDIKE.** An early garden and shipping variety similar to the regular Klondike but with irregular dark green stripes. Fruits oblong, of medium size. Flesh the deepest red known to watermelons; sweet and crisp, seed small.



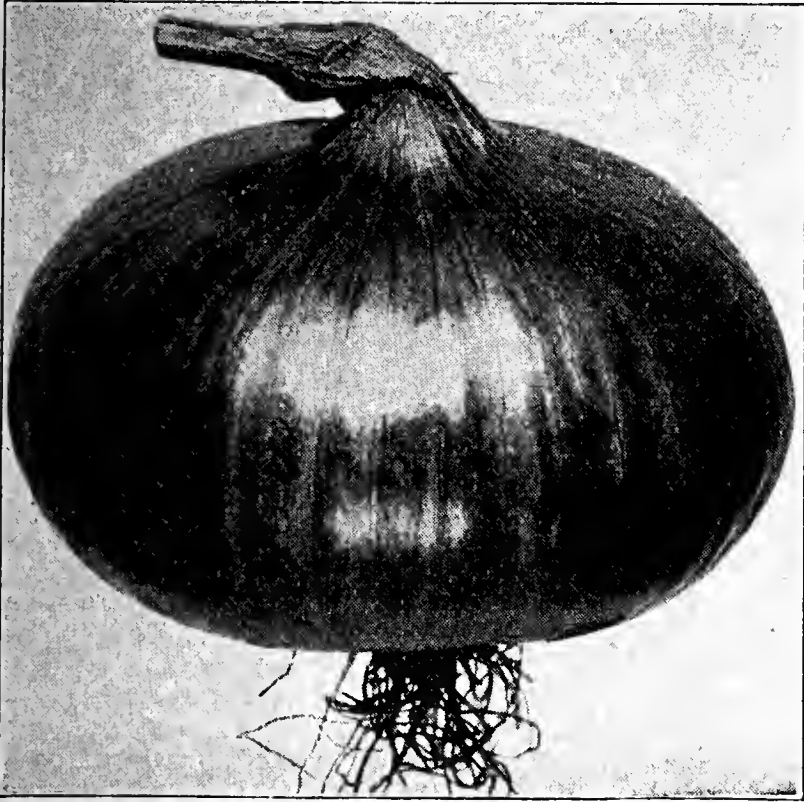


## MUSTARD

1/2 oz. to 100 ft., 4 lbs. per acre.

Seed may be sown from early Spring to midsummer in rows 18 inches apart. Thin to 5 or 6 inches apart in the rows. The plants are in condition for use as soon as the leaves are the size of one's hand. Mustard runs to seed quickly, so that successive plantings are necessary for a continuous supply. **Pkt. 5c; 1 oz. 15c; 1/4 lb. 35c.**

**SOUTHERN GIANT CURLED.** The leaves are large, light green with a tinge of yellow, and much crumpled and frilled at the edges. The plant is upright or slightly spreading in growth. This variety is valued in the South on account of its vigorous growth, hardiness, and good quality.



## ONIONS

1/2 oz. to 100 ft., 3 to 4 lbs. per acre.

As early as soil can be worked in Spring, sow the seeds thinly in drills 1 foot apart, and cover lightly, later thinning out to about 6 inches apart in the row. The soil must be well fertilized and be made very friable. In hot weather, water frequently. **Pkt. 5c; oz. 30c; 1/4 lb. 75c; 1 lb. \$2.25.**

**CRYSTAL WAX BERMUDA.** Medium size, pure, waxy white. One of mildest sorts grown.

**WHITE PORTUGAL, OR SILVERSKIN.** A good second early white flat Onion. It should be planted any time from November 1st until April 1st. It is good keeper and desired for shipping. Also very desirable for green bunching onions. Under good cultivation the average diameter is from 4 to 6 inches.

**WHITE GLOBE.** The most attractive large round Onion with pure paper-white skin. The flesh is also pure white, sweet, juicy, and of most delightful mild flavor. It is a main-crop variety which will keep well for some time. Market gardeners' choice for bunching onion.

**WHITE SWEET SPANISH.** A large, sweet onion, introduced into this country from Spain in recent years, and can be grown very successfully here. The onions are equal to those that used to be imported. Has no bite nor objectionable strength, being mild, sweet flavored, fine, firm meat of tender texture.

**RIVERSIDE SWEET SPANISH.** A large, globe shaped brown onion, weighing 1 to 3 pounds. Small tops. Flesh mild and sweet. Good for slicing. Most popular market onion.

**PRIZETAKER.** The most widely grown of the yellow types. Enormously productive. Bulbs large, globular; skin thin, glossy and of a lighter shade of yellow than Danvers; flesh coarse but mild and sweet.

**YELLOW GLOBE DANVERS.** An outstanding variety, dependable cropper, medium late, hardy, and excellent keeper; used for shipping and storage. Bulbs medium size, spherical, clear yellow, firm and solid and tough, clinging skin. Flesh white with slight yellow tone.

1 qt. to 100 ft., 12 bu. per acre.

**ONION SETS.** Sets are Northern grown, hardy, carefully cleaned, sized and packed. Produced for Western conditions. Plant Onion Sets deep for green Onions and shallow for dry Onions. Write for quantity prices.

## OKRA or GUMBO

2 oz. to 100 ft., 8 to 10 lbs. per acre.

Sow seed early in May, in rows 3 feet apart and 2 inches deep. As plants appear, thin out to about 1 foot apart. **Pkt. 5c; oz. 15c; 1/4 lb. 35c.**

**IMPROVED DWARF GREEN.** Early. Short, thick pods.

**PERKIN'S MAMMOTH LONG POD.** Standard medium early sort for home, market garden and canning. Plants 4 to 5 feet tall; pods dark green, fleshy, tender; become 7 to 8 inches long, 1 1/8 inches in diameter. Distinctly ribbed and tapered.

## PEAS

1 1/2 lbs. to 100 ft., 90 to 180 lbs. per acre.

For first crop, rounded seeded Peas should be sown in the open ground as soon as it is fit to be worked; wrinkled varieties should be planted 2 to 3 weeks later. Frequent planting for succession, and a careful selection of varieties, will give an almost continuous crop of Peas from June until frost. Sow Peas in rows 3 feet apart and 1 to 2 inches deep. Rotted horse manure and wood ashes should be freely used in the preparation of soil for Pea growing. **Pkt. 10c; 1 lb. 25c; 10 lbs. \$2.00.**

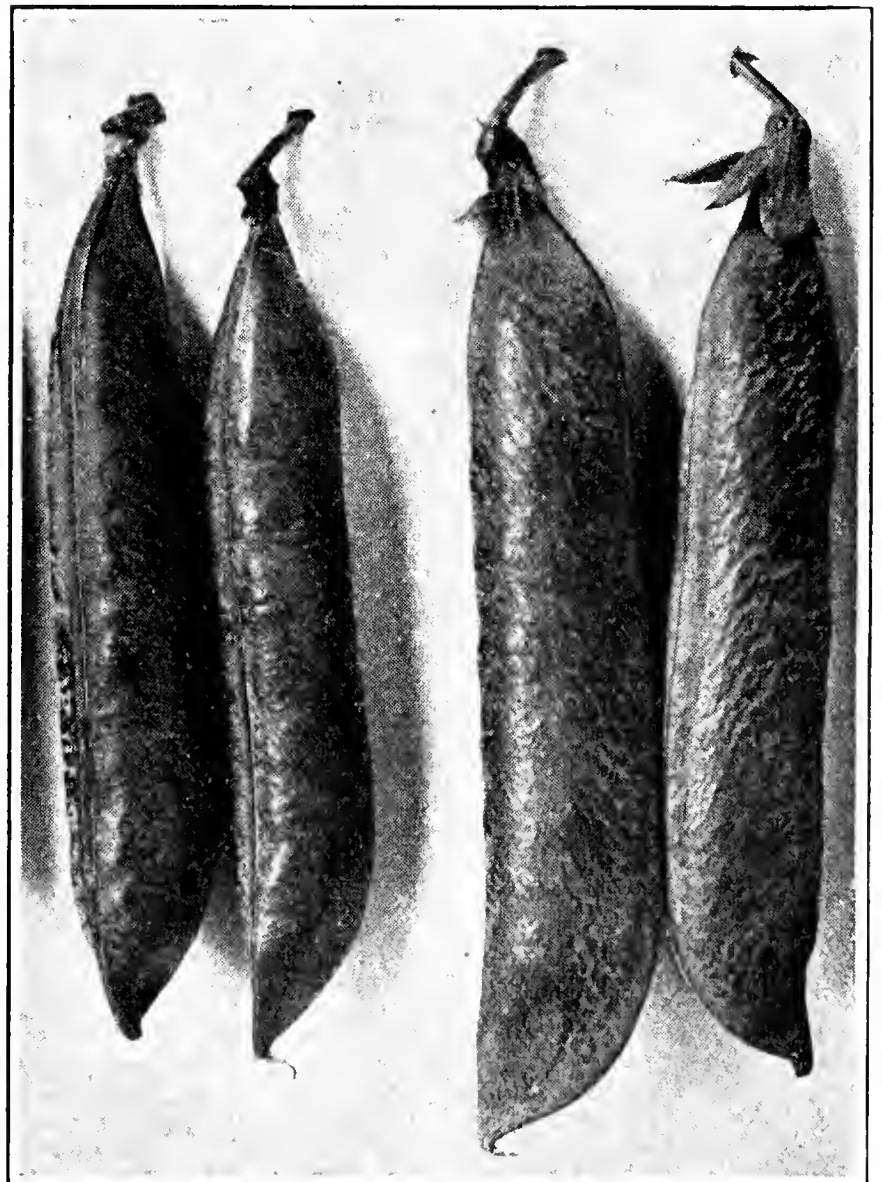
### First Early Varieties

**AMERICAN WONDER or NOTT'S EXCELSIOR.** Important early dwarf variety for the home garden. Vines 12 to 14 inches tall, dark green, very productive. Pods medium green, 3 inches long, plump and straight, blunt; seeds medium small, squarish, wrinkled, green; interior green.

**ALASKA.** This variety is extremely early. The round pods, 2 1/2 inches long, contain 5 to 8 Peas, which are ready to use in about 55 days. The Peas are small, round, and tender. The vines are 2 1/2 to 3 feet tall.

**GRADUS, OR PROSPERITY.** A very popular second early, large podded variety for home use and market. Vines 36 inches tall, medium green, stocky. Pods single, broad, plump, pointed, medium green; contain 8 to 10 large, sweet, delicious Peas.

**LAXTON'S PROGRESS OR BLUE BANTAM.** A little earlier than other dwarf large podded Peas, this variety is generally considered the best of its class. The blue-green pods





## PEAS (Continued)

are often more than 4 inches long and contain 8 dark green Peas of finest quality. The seeds are large, wrinkled, green and cream in color.

**LITTLE MARVEL.** Outstanding among dwarf Peas on account of its exceptional quality and yield. Valuable for home garden and early market. Vines dark green, 18 inches tall, stocky. Pods single and double, dark green, blunt, plump, well filled with 7 to 8 tender Peas.

**HUNDREDFOLD.** A leader among the early dwarf varieties. Grows 18 inches to 20 inches high. Dark green foliage heavy with dark green straight well-filled pods of finest quality.

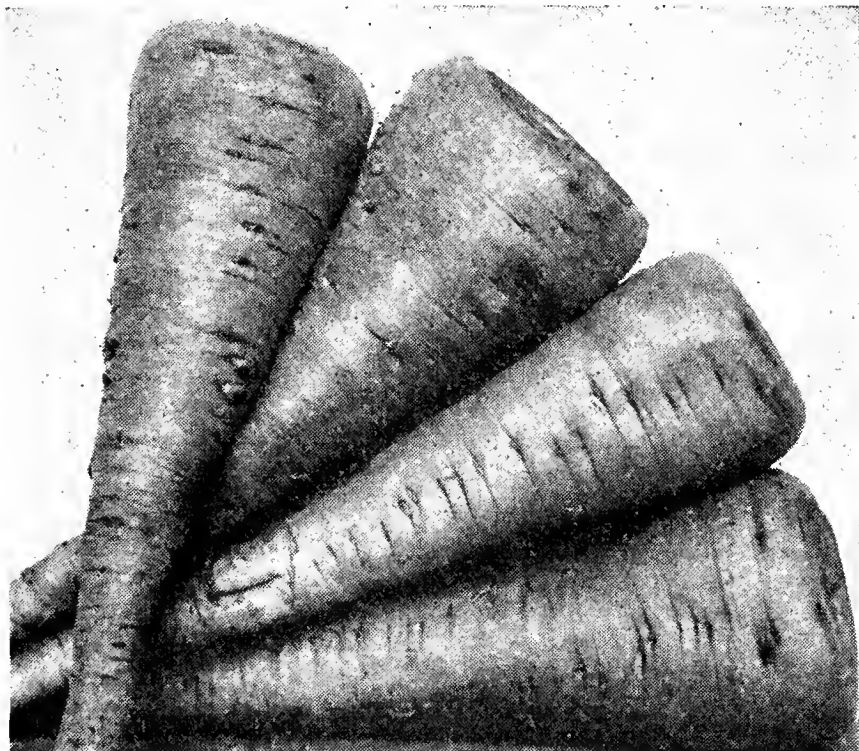
### Midseason Varieties

**TALL TELEPHONE OR ALDERMAN.** A handsome, large podded variety. Unexcelled for home gardens, for local markets and for shipping. Bears immense crops; wilt resistant. Pods single, very broad, plump, straight dark green, pointed, contain 8 to 10 Peas of highest quality.

**DWARF TELEPHONE.** Only about 2 feet tall. Resembles Telephone, and the pods are well filled with Peas of the same good quality. It is an excellent variety to follow the early Peas in the home garden. Seeds large, wrinkled, green.

### Late Varieties

**IMPROVED STRATAGEM.** A superior late variety. Vines deep green, 26 inches tall, stocky and branching. Pods single and paired, wide, nearly round, straight, pointed, dark green. Contain 8 to 10 tender Peas.



## PARSNIP

**1 oz. to 100 ft., 3 to 4 lbs. per acre.**

Sow the seed as soon as season will permit, in drills about 2 feet apart, and thin plants out to 1 foot apart in the row. The ground should be deeply trenched and well manured. **Pkt. 5c; oz. 15c; 1/4 lb. 30c; 1 lb. 75c.**

**HOLLOW CROWN, THICK SHOULDER.** This is the best and most popular variety in cultivation. The skin is smooth and white, while the flesh is tender. The roots grow 18 to 20 inches in length, but the first 8 inches from the top is the best part.

## PARSLEY

**1/2 oz. to 100 ft., 3 to 4 lbs. per acre.**

Parsley seed is even slower than parsnip in germinating. It grows best in rich mellow soil and should be sown as early as possible in Spring in rows 1 to 2 feet apart with a covering of not more than 1/2 inch of soil firmly pressed down. When the plants are well up, thin them 8 to 18 inches apart in the row. **Pkt. 5c; oz. 15c; 1/4 lb. 35c.**

**EXTRA TRIPLE CURLED (MOSS CURLED).** This vigorous, compact grower is one of the most popular varieties because of its deep green color and tightly curled leaves that look like moss. It is unusually decorative for table use.

**HAMBURG, THICK ROOTED.** The root of this variety is edible and resembles a slender Parsnip in color and shape. The flesh is white, dry, and similar to Celeriac in flavor. It is used for flavoring soups and steps. The roots may be stored in sand for Winter use.



## PUMPKIN

**4 oz. to 100 ft., 3 to 4 lbs. per acre.**

Pumpkins are typically American, and Pumpkin pie is one of our truly American dishes. They are less sensitive to unfavorable conditions of soil and weather than Melons or Cucumbers, but they are cultivated in about the same way. **Pkt. 5c; 1 oz. 15c; 1/4 lb. 35c; 1 lb. \$1.00.**

**LARGE YELLOW OR CONNECTIUT FIELD.** This sort is grown largely in the corn field for stock, but the flesh is moderately fine grained, highly flavored and very good for pies. The fruits weigh about 20 pounds and are a rich, deep orange yellow color.

**SWEET OR SUGAR.** A small handsome variety, and very popular. The skin is a deep orange yellow. Flesh fine grained and sweet in taste. Famous in Boston as a pie Pumpkin. It sells better on our local market than any other variety except the Jack o' Lantern at Hollowe'en time.

**WINTER LUXURY.** This variety is very popular for the home garden. The fruit matures in 75 to 80 days, weighs 8 1/2 pounds, and is nearly round. The skin is light yellow with a russet tinge and finely netted; the flesh is rich creamy yellow, very thick, sweet, and finely flavored.

## PEPPER

**1/4 oz. to 100 ft., 1 to 2 lbs. per acre.**

Culture and soil and temperature requirements are about the same as for Eggplant. A moderate dressing of Guano, poultry manure, or complete commercial fertilizer, hoed into the soil after the plants are 6 to 8 inches tall, will be very beneficial. **Pkt. 5c; 1 oz. 60c; 1/4 lb. \$1.75.**

**CALIFORNIA WONDER.** Thickness of flesh alone, which is often 3/8 of an inch, places this sweet Pepper above all others. It is crisp and juicy, too, without a trace of pungency. Vigorous growing plants bear a heavy yield of blocky fruits that become as much as 5 inches long and 4 inches wide.

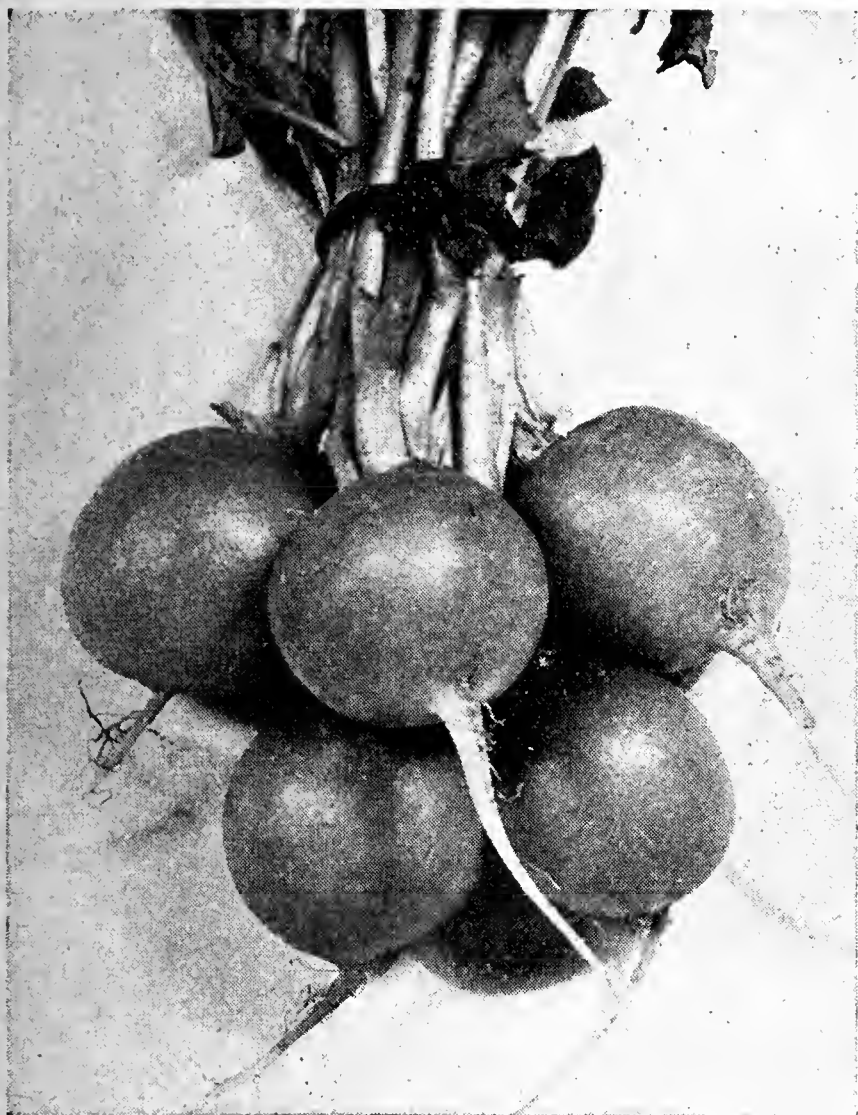
**CHINESE GIANT.** Fruits are often 6 inches across and 4 1/2 to 5 inches deep. The flesh is moderately thick and very mild. The fruits are rich bright green when young, and bright cherry red at maturity.

**LARGE BELL OR BULLNOSE.** A popular, early, sweet prolific sort, with small, erect plants. Fruits blunt; flesh fine quality and mild flavor. Much used for stuffing.

**LONG RED CAYENNE.** This well-known, medium early Pepper is especially good for drying purposes. The fruit is 4 inches long and 1 inch thick, twisted and pointed. It is deep green when young and bright red when ripe. The flesh is strong and pungent.

**PERFECTION PIMIENTO.** A splendid canning variety, adapted to home and market garden culture. Plants large, erect, prolific. Fruits heart shaped, very smooth; flesh exceptionally thick, sweet and mild.





## RADISH

1 oz. to 100 ft., 10 to 12 lbs. per acre.

For an early crop, sow in hotbed in January, February and March. As soon as ground is fit to be worked, sow seed in the open, in rows 1 foot apart. **Pkt. 5c; 1 oz. 10c; 1/4 lb. 25c; 1 lb. 75c.**

**EARLY SCARLET GLOBE.** The earliest of all forcing radishes grown for market. Globular, uniform size, bright scarlet, white flesh, crisp and tender.

**EARLY SCARLET TURNIP—WHITE TIP.** This variety grows very quickly and is ready for picking in 25 to 30 days, Scarlet in color, turnip shaped, very crisp and of excellent flavor. One of the best varieties for the home gardener.

**CRIMSON GIANT.** A favorite with home gardeners. Large globular root, 1 to 1 1/2 inches in diameter, deep crimson, flesh firm.

**FRENCH BREAKFAST.** A splendid variety for home use; oblong, bright scarlet, white tip. Grows about 1 1/2 inches long and 5/8 inch thick.

**LONG WHITE ICICLE.** Long slender roots which remain tender and crisp until grown. Matures early; has small top, which permits close planting.

## Winter Varieties

**BLACK SPANISH LONG OR ROUND.** A hardy, large rather pungent variety for Winter use. Keeps unusually well; is 8 to 9 inches long and 2 inches thick, slightly tapered. The skin is black and flesh white and crisp. Round, about 4 inches in diameter.

**CHINA ROSE WINTER.** A large rose colored variety from the Orient. Hardy and rather mild. The flesh is white, and very crisp. This variety is broadest at its base and is 4 to 5 inches long.

## RUTABAGA, Swedish Turnip

1 oz. to 100 ft., 2 to 4 lbs. per acre.

The culture is the same as for common Turnip, but if anything, less exacting in care. **Pkt. 5c; oz. 10c; 1/4 lb. 25c; 1 lb. 75c.**

**IMPROVED AMERICAN PURPLE TOP.** The old, popular standard sort both for stock feeding and table use. Flesh yellow, solid and sweet. Is globe shaped, of large size, of fine quality.

## SALSIFY, Vegetable Oyster

1 1/2 oz. to 100 ft., 7 to 8 lbs. per acre.

The roots of this vegetable are appetizing and nutritious, and the flavor is like that of Oysters. Salsify succeeds best in a light, well enriched soil, which should be stirred to a good depth. Coarse and fresh manure should be avoided, as it will cause the roots to become irregular and branched. Sow early and quite deep, giving the general culture recommended for Parsnip. **Pkt. 5c; oz. 15c; 1/4 lb. 50c.**

**MAMMOTH SANDWICH ISLAND.** Large and strong growing with long, smooth, white, tapering roots less likely to branch than those of other sorts.

## SPINACH

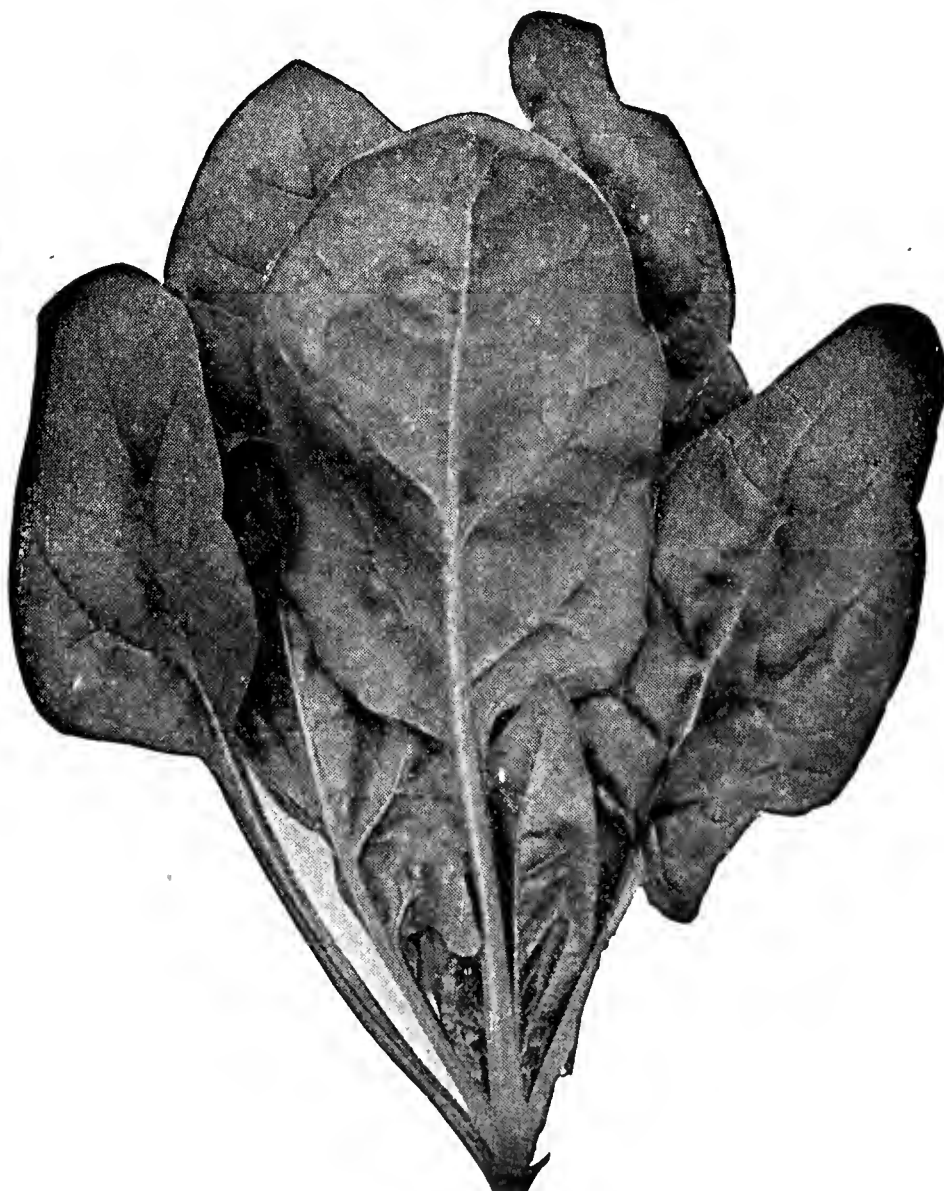
1 1/2 oz. to 100 ft., 10 to 20 lbs. per acre.

Sow in rows 16 to 20 inches apart and thin to 6 inches apart in the row when leaves are an inch wide. In the North, seed can be planted as soon as the ground can be prepared. In the South, Spinach will Winter over with little or no protection. **Pkt. 5c; 1 oz. 15c; 1/4 lb. 30c; 1 lb. 85c.**

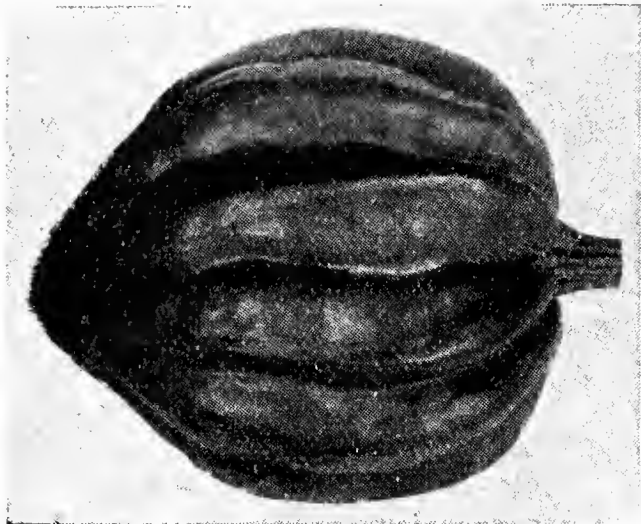
**LONG-STANDING BLOOMSDALE.** An early, hardy Spinach of attractive appearance. The dark glossy green leaves are heavily crumpled and savoyed. It combines all the good qualities of the best Savoy strain with remarkable long-standing properties. Will remain in perfect condition two weeks longer than other Savoy strains. Very uniform and almost entirely dependable.

**IMPROVED THICK LEAF.** The seed of this thick leaved variety produces the largest Spinach. The leaves grow rapidly and remain in good condition a long time. The medium green leaves are large, rounded, slightly crumpled, succulent, and tender. It is an excellent home garden Spinach.

**NEW ZEALAND.** Although not a true Spinach, the leaves look like Spinach and are very useful as greens. On soils too poor to grow Spinach successfully, the plants thrive and produce groups of small fleshy leaves that are tender and delicious when cooked. Each branch of the plant produces others, so that it goes on providing a continuous supply of greens throughout the Summer.







## SQUASH

Vining, 1 oz. to 100 ft., 4 lbs. per acre.

Bush, 1 oz. to 100 ft., 4 to 6 lbs. per acre.

Seeds should be planted about the middle of May, in hills 4 feet apart for bush varieties, and 10 feet apart for the running sorts. Put 12 to 15 seeds in each hill; afterward thin out, leaving 3 or 4 of the best plants. **Pkt. 5c; oz. 15c; 1/4 lb. 35c; 1 lb. \$1.00.**

**ZUCCHINI OR ITALIAN.** The favorite Italian Squash. It should be eaten when quite young, 4 to 6 inches long. It is a delicious Summer variety; do not hesitate to plant it. It is very prolific; a few hills will suffice to keep the family well supplied the entire Summer.

**EARLY SUMMER CROOKNECK.** Very early, 60 to 65 days. The bushy plant is very productive of attractive fruits, weighing about 2 pounds. The skin is distinctly warted and bears a bright yellow color, while the flesh is pale cream, firm and tender. A very good sort for home planting.

**GOLDEN HUBBARD.** A very good variety of medium size; weight about 8 pounds. An excellent keeper on account of its thick rind, which is of a beautiful golden color.

**IMPROVED HUBBARD.** Large and warty Hubbard type. Shell dark green, hard, moderately warted. Flesh light orange, very dry and richly flavored. One of the best Winter Squashes.

**TABLE QUEEN OR DANISH.** Small, dark, green, acorn shape. Flesh rich yellow, dry, richly flavored. Medium early. A good keeper. Easy to grow.

**WHITE BUSH SCALLOP.** A popular variety bearing profusely small, rather flat white Squashes with a distinct scalloped edge. Is very early and has a fine flavor.

## TOMATO

1/8 oz. to 100 ft., 2 oz. per acre.

In February or March sow seeds lightly in rows in greenhouse, hotbed, or window box, and when plants have reached a height of 3 inches, transplant in hotbeds. About June 1, set out in open ground, 4 feet apart, giving plenty of well rotted manure to each plant. Water freely during hot weather. To obtain the best results, trellises or stakes should be used. **Pkt. 5c; 1 oz. 35c; 1/4 lb. \$1.00; 1 lb. \$3.75.**



**BONNY BEST.** One of the very best early varieties for table and canning. Vine medium, not very hardy. Fruits medium sized, apple shaped, smooth, solid, bright scarlet in color, of excellent quality.

**CHALK'S EARLY JEWEL.** A second early sort. Good for canning. Plant medium with open growth; prolific. Fruits medium large, smooth; scarlet, flattened globe-shaped.

**IMPROVED STONE or NORTON WILT RESISTANT.** Particularly valuable for the market gardener and canner. Plant medium heavy and productive. Fruits uniform bright deep scarlet; large and flat, but smooth and solid. Of excellent quality.

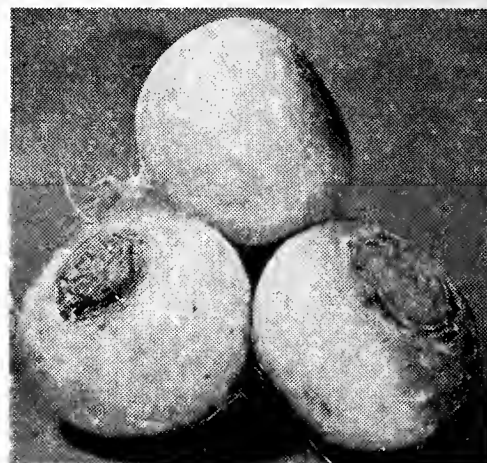
**SPARK'S EARLIANA.** One of the earliest scarlet fruited varieties. Medium size, almost seedless and solid. Vine open and spreading. A heavy bearer. Succeeds everywhere.

**MARGLOBE.** The best general purpose Tomato recently introduced. Excellent home garden variety and particularly valuable for shipping. Plants thrifty and heavily productive and of long bearing period. Fruits uniform open scarlet; large; uniformly globe shaped; smooth, solid, and of distinct quality.

**PRITCHARD (SCARLET TOPPER).** Wilt resistant, of the type of plant known as self-topping or self-pruning. Mid-season to late and a heavy topper. Fruit globe shaped, deep scarlet, smooth and solid. A good home and market variety and very popular for shipping. 80 to 85 days.

**GROUND CHERRY OR HUSK TOMATO.** Fruits small, yellow, enclosed in loose paper husks. Very much prized for preserving. **Pkt. 10c; 1 oz. 75c, postpaid.**

**YELLOW PEAR.** Enormously productive. Fine for salads or marmalade. Sweet and delicious. Small, yellow, pear-shaped fruits of exceedingly mild and pleasing flavor.



## TURNIP

1 oz. to 100 ft., 2 to 3 lbs. per acre.

For main crop, sow in open ground from May to July; for Winter use, during July and August. Set out in rows 1 1/2 feet apart, allowing a space of 6 inches between the plants. **Pkt. 5c; 1 oz. 15c; 1/4 lb. 25c; 1 lb. 70c.**

**PURPLE TOP STRAP LEAF.** A medium early, very productive variety. Tops medium small, upright, strap-leaved. Roots flat, purple red at the top, white below; flesh white, fine grained and tender.

**PURPLE TOP WHITE GLOBE.** This variety may be grown to quite a large size without developing signs of coarseness. It is of spherical shape with white skin, the upper one-third being colored reddish purple. Flesh pure white, firm, fine grained and of superior flavor. Good keeper. Fine for table use and stock feeding.

**SNOWBALL.** A desirable sort for home use and early markets. Tops small and erect. Roots medium sized, round, white throughout, crisp, sweet and tender.

**YELLOW ABERDEEN.** Excellent for Winter use. Cut leaved, globular, quite smooth; color purple top, yellow below; flesh firm, tender, light yellow.

**BORTFIELD.** The easiest harvested root crop. A good keeper; will keep through the average Winter in the field. Due to thick skin, is quite resistant to worm injury. A very heavy yielder.

**COW HORN.** This variety is pure white; in shape like a carrot, growing nearly half out of the ground, and slightly crooked. It is delicate and well flavored. Used also as a green manuring crop.

# ORTHO

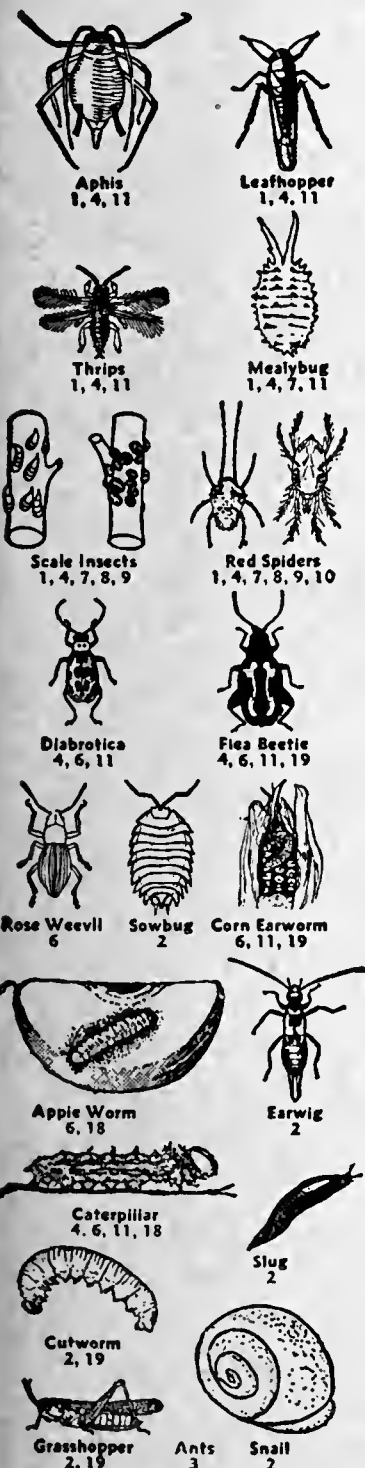
## GARDEN SPRAYS



# INSECTICIDES - FUNGICIDES

## A GUIDE TO PEST CONTROL

The most common destructive insects are illustrated below (some greatly enlarged). The numbers indicate the products described on this page that are generally used in their control. Other pests are mentioned under product names.



**1. Garden VOLCK Spray.** The complete contact Spray used for control of sucking insects, including Aphis, Thrips, Mealybug, Scale, White Fly, Red Spider, Cyclamen Mite, small worms, certain Beetles, Rose Mildew, Garden VOLCK Spray is now the best known all-around garden spray used by home gardeners.

3 1/2-oz. bottle \$ .35 1-gallon tin \$3.00  
1-pint bottle .85 5-gallon tin 10.00  
1-quart bottle 1.25

**2. BUG-GETA Bait.** A specially prepared metaldehyde bait that has proved quite effective for use against Snails, Slugs, Sowbugs, Pillbugs, Earwigs, Cutworms, Armyworms, and Strawberry Root Weevils.

1-lb. carton \$ .25 7 1/2-lb. bag \$1.35  
2 1/2-lb. carton .50 30-lb. bag 3.75

**3. ANT-B-GON Poison.** For Argentine and Sweets-Eating Ants. With safened "wick" feeder for garden use. Keep a supply of filled dispensers in the garden near the house at all times.

**ANT-B-GON Dispenser Sets**  
Four, 1-oz. bottles \$ .60 per set  
**ANT-B-GON Ant Control Liquid**  
4 ounce bottle \$ .20 each  
1-pt. bot., ea. .50 1-qt. bot., ea. .90

**4. EXTRAX Garden Spray.** A complete garden spray, with Pyrethrum and Rotenone as the main active ingredients and sufficient wetting agent to give high wetting at normal dilution. Combines with GREENLEAF Copper Fungicide to make the new home use safened "Shot Gun Formula" insecticide and fungicide combination spray. The low dilution effective strength makes "EXTRAX" an economical spray for all general garden use.

1-oz. bot., ea. \$ .35 16-oz. bot., ea. \$2.50  
4-oz. bot., ea. 1.00 1-gal. tin, ea. 15.00

**5. GREENLEAF Copper Fungicide.** A low dilution liquid copper fungicide containing its own wetting agent, so as to give high wetting at normal dilution. Used to prevent and control certain garden diseases as mildew, rust, curl leaf, and leaf spot and other diseases effectively treated with copper fungicides. "GREENLEAF" is compatible to mix with "EXTRAX" to make a convenient "shot gun formula".

1-oz. bot., ea. \$ .35 16-oz. bot., ea. \$1.50  
4-oz. bot., ea. .60 1-gal. tin, ea. 7.50

**6. Garden CALTOX Insecticide-Fungicide.** For dusting or spraying. Has proved remarkably effective for control of Diabrotica Beetle, Flea Beetle and other Beetles; Corn Earworm; Rose Slug and other worms; Peach Leaf Curl, Downy Mildew.

6-oz. ctn. (makes 8 to 16 gal. spray) \$ .35  
1-lb. ctn. \$ .58 3-lb. ctn. 1.26

**7. Nursery VOLCK Oil Spray Emulsion.** Long recognized as a superior spray for Mealybug, Red Spider, Scale, White Fly. Also recommended as a carrier and spreader for Nicotine, Pyrethrum, Rotenone, Bordeaux, "CALTOX", "COPOSIL", Lead Arsenate, in combination spray programs.

1-pint tin \$ .50 1-gallon tin \$2.00  
1-quart tin .75 5-gallon tin 5.00

**8. Garden KLEENUP Dormant Oil Spray Emulsion.** Used on dormant deciduous trees and

shrubs to kill San Jose Scale, Lecanium Scale, and other over-wintering insect pests.

1-quart tin (makes 6 gallons), each \$ .50  
1-gal. tin, ea. \$1.00 5-gal. tin 3.00

**9. ORTHO Mildew Spray.** This product shows remarkable fungicidal properties. Effective against many Powdery Mildews on Rose, Delphinium, Dahlia, Sweet Pea, and other plants. Also kills scale and Red Spiders.

8-oz. \$ .35 1-gal. \$2.00  
1-qt. .75 5-gal. 5.00

**10. FLOTOX Garden SULPHUR.** A fine Powdered Sulphur suitable for use as a Dust or as a Liquid Spray to control Powdery Mildew, Apple Scab, Brown Rot, and Red Spider.

2-lb. carton \$ .25 5-lb. carton \$ .50

**11. Garden BOTANO Dust.** A high strength Rotenone dust useful in controlling certain Aphis, Thrips, Worms, Beetles, Spittle Bugs on vegetables or other plants where a non-residue spray is desired. Packed in new "puffer-duster" carton.

1-lb. \$ .35 4-lb. \$ .75

**12. DEADLINE Insect Barrier.** For control of climbing insects on certain varieties of mature trees. Apply on an undercoating of shellac. For use on mature trees only and on mature Grapevines.

6-oz. tin \$ .35 1-lb. tin \$ .65

**13. ORTHO Rodent Destroyer.** A balanced strychnine-poisoned ration containing Wheat, Barley, Oats, and Fruits. Used to kill Squirrels, Gophers, Rats and Mice. Longer lasting, waterproof, more effective.

6-oz. carton \$ .29 5-lb. carton \$1.50  
1-lb. carton .50

**14. TRIOX Weed Killer.** The improved "ORTHO" Weed Killer, used to kill weeds on paths, roads, curbs, tennis courts, parking lots, athletic fields, etc.

1-pt. tin, ea. \$ .40 1-gal. tin, ea. \$1.50  
1-qt. tin, ea. .60 5-gal. tin, ea. 5.00

**15. Garden COPOSIL Fungicide.** This copper fungicide has proved remarkably safe and effective in controlling certain Blights, Scabs, Mildews, Leafspots and Leaf Curl. Minimum visible residue on ornamental plants.

8-oz. carton (makes 10 to 20 gallons dilute spray) \$ .35

**16. ORTHO Garden BORDO.** A copper fungicide widely used to control plant diseases.

1-lb. carton \$ .30 4-lb. bag \$ .60

**17. ORTHO Garden LIME-SULPHUR (Dry).** A Fungicide-Insecticide, used to control certain fungous diseases, Scale and Red Spider.

1-lb. tin \$ .35 5-lb. tin \$1.50

**18. ORTHO Garden LEAD ARSENATE.** Used as a spray or dust to control chewing insects such as Beetles, Caterpillars and Worms.

1-lb. \$ .35 4-lb. bags \$ .90

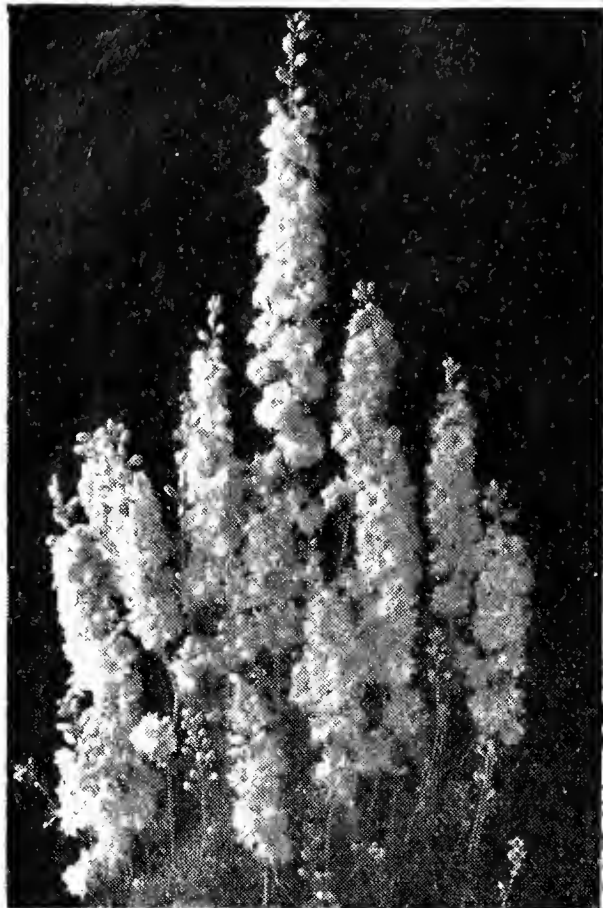
**19. ORTHO Garden CALCIUM ARSENATE.** A strong stomach poison used in making poisoned baits, and as a dust or spray to control certain Beetles and Worms.

1-lb. carton \$ .25 4-lb. bags \$ .50

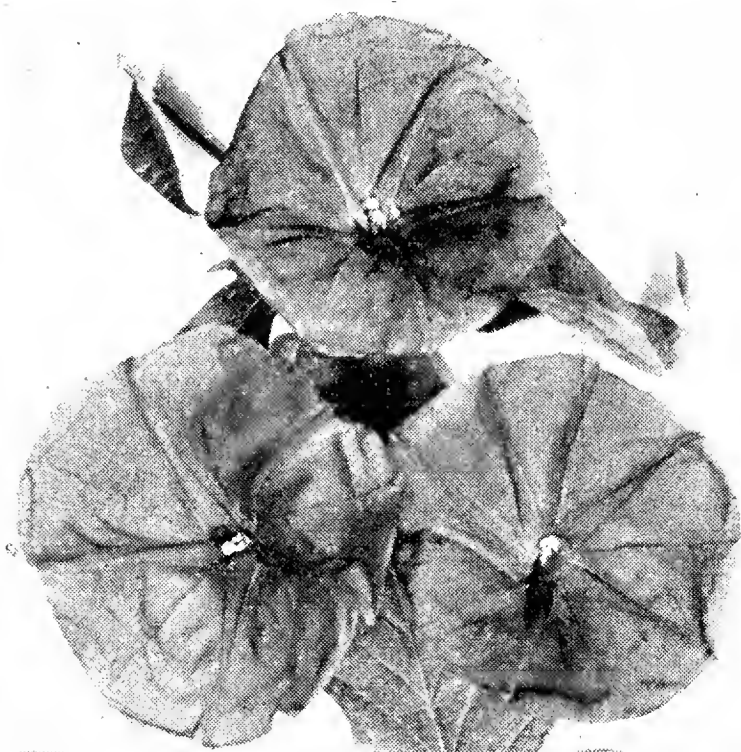
**20. SCRAM Dog Repellent.** A powder used around lawns and shrubs to repel dogs.

Special Shaker Package \$ .49

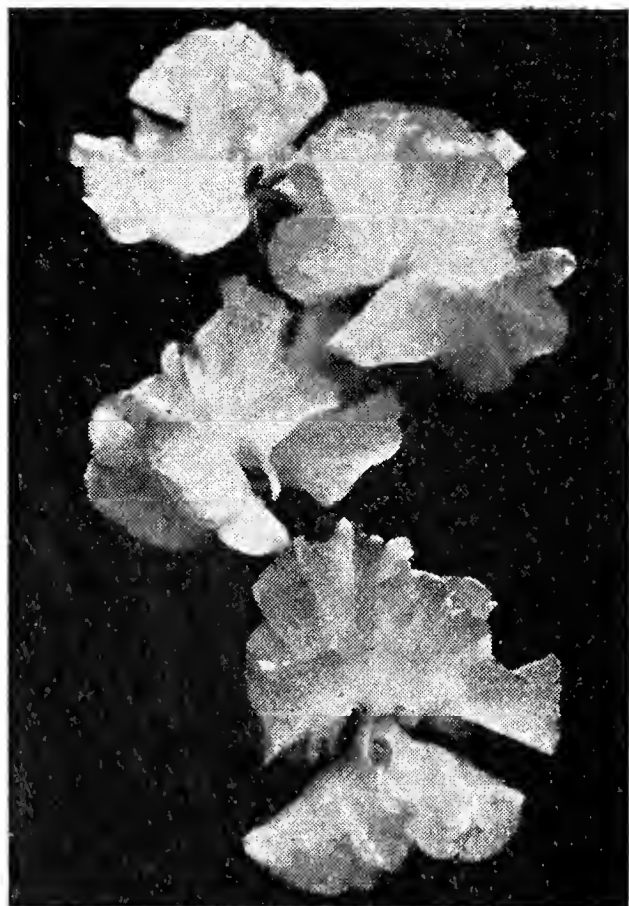




*Larkspur,  
Giant Imperial Pink Perfection*



*Ipomea, Scarlett O'Hara*



*Sweet Pea, Rose Pink*

# NEW FLOWER SEEDS

## AGERATUM, MIDGET BLUE

**Silver Medal, All-America Selections, 1940**

A very fine dwarf (2 to 3 inches high) Ageratum with delicate foliage, which is practically smothered with small true Ageratum Blue flowers. This is really the first dwarf Ageratum that we have found that will come uniformly dwarf and true to color from seed. **Pkt. 25c.**

## ASTER, CREGO ENCHANTRESS

A luscious shade of lively salmon rose. Distinct and new from all other colors yet developed in Asters. Flowers large, of good substance, and are produced on free flowering, branching, wilt-resistant plants. **Pkt. 15c.**

## HOLLYHOCK, INDIAN SPRING

**Silver Medal, All-America Selections, 1939**

Semi and double flowers of bright rose and rosy carmine. Its many flowered branches produce a continuous show until frost. Sow fall or early spring. Flowers five months from seed. **Pkt. 15c.**

## IPOMOEA, SCARLETT O'HARA

**Gold Medal, All-America Selections, 1939**

Scarlett O'Hara is an entirely new color in the popular Morning Glories—rich dark wine red or deep rosy crimson. Flowers are about 4 inches in diameter, freely produced on fast growing vines which start blooming within 65 days after seed is sown and are very showy for covering a fence or trellis. The dark green foliage does not make a heavy growth, leaving the plants graceful in appearance. **Pkt. 15c.**

## LARKSPUR, GIANT IMPERIAL PINK PERFECTION

The 2-inch florets of rounded broad petals are evenly and closely spaced on the stem, giving a very heavy Hollyhock-like cutting spike 24 inches or more in length. Plants are tall, basal branching, upright in habit and very free flowering. Color is a very luscious shade of lively pink. **Pkt. 25c.**

## NASTURTIUM, INDIAN CHIEF

Indian Chief has dark foliage with vivid scarlet flowers. The blooms are sweet scented and freely produced. We recommend this variety with confidence. **Pkt. 15c.**

## PETUNIA, GIANTS OF CALIFORNIA

A new strain of rose and pink shades. Light, richly veined throats surrounded by satiny petals which are heavily ruffled. Large blooms, 5 to 7 inches in diameter, produced on strong, richly-foliaged plants. Excellent bedding variety; fine window box type. **Pkt. 25c.**

## ICELAND POPPY, IMPERIAL JEWELS

The very finest and most outstanding Iceland Poppy yet produced. The variety of color tones is almost limitless—light to deep orange, yellow to pure white, shell pink to salmon pink, deep rose and nearly red tones, and pastel hues of apricot, buff, and chamois. Flowers are beautifully frilled and fluted, many semi-double. Long wiry stems bear the flowers upright in regal splendor. **Pkt. 25c.**

## SWEET PEA, ROSE PINK

**Silver Medal, All-America Selections, 1940**

Large, wavy, rose-pink flowers on white ground. New type, maturing between the early flowering and the Spencer classes. Is taller and has longer stems than either of the others and gives more cut flowers. Free blooming and seems more heat-resistant than the Spencers. **Pkt. 25c.**

## ZINNIA FANTASY, WILDFIRE

A rich, dazzling scarlet. Wildfire adds a distinct note of color and cheerfulness to the garden and will enliven any home when used in flower arrangements. Plants neat in habit, strong growing, and very free blooming; 2½ to 3 ft. in height, coming into flower 45 to 50 days after seed is sown. **Pkt. 25c.**

# ANNUAL AND PERENNIAL FLOWER SEEDS



*Antirrhinum*

## ACROCLINIUM, Everlasting (a)

Double daisy-like flowers, in rose and white shades, about an inch in diameter; make fine bouquets as fresh blooms, but are fine to keep as winter bouquets. Height 15 inches.

**DOUBLE MIXED.** Pkt. 10c.

## AFRICAN DAISY (See *Dimorphotheca*)

## AGERATUM, Floss Flower (a)

One of the most popular Summer blooming plants grown from seed, being literally covered with flowers from early Summer until frost. Excellent for borders, edgings, rockery, or pots. The taller varieties are fine for cutting. Do well in semi-shade.

**BLUE BALL.** Compact round plants, 6 inches tall, hidden by a mass of pure blue flowers. Fine for dwarf beds and edging. Pkt. 10c.

**BLUE PERFECTION.** Clear deep amethyst blue, of compact growth and the finest of all large-flowering ageratum. Height 1 foot. Pkt. 10c.

**MIDGET BLUE.** See page 14.

## ALYSSUM, Madwort

One of the most popular garden flowers, remaining in bloom the entire season; suitable for beds and edging in Summer, or for growing in pots and boxes for Winter blooming.

**CARPET OF SNOW (ra).** White flowers on plants only 3 inches tall. Rapidly becoming a favorite variety. Pkt. 10c.

**SAXATILE COMPACTUM.** Perennial. Sometimes called Basket of Gold. It grows compactly and is covered with a wealth of golden blossoms in early spring. Height 12 inches. Pkt. 10c.

a, annual; b, biennial; c, climber; p, perennial; ra, rock plant annual; rp, rock plant perennial.

## AMARANTHUS, Summer Poinsettia (a)

Brilliant-foliaged annuals, bearing curious racemes of flowers. All are useful in borders of tall plants, or for the centers of large beds. They thrive best in a hot, sunny location and not too rich soil.

**MOLTEN FIRE.** Leaves dark bronze, center Poinsettia red. Height 4 feet. Pkt. 15c.

**Mixed.** All sorts. Pkt. 10c.

## ANCHUSA, Summer Forget-Me-Not

A free-flowering class, producing its charming Forget-me-Not-like blooms in graceful sprays from early Summer until late Fall.

**BLUE BIRD (a).** Deep blue flowers on plants 18 inches tall. Pkt. 10c.

## ANTIRRHINUM, Snapdragon (a)

Snapdragons are fascinating flowers, with their interesting form and glowing colors. They are easy to grow and will bloom continuously until severe frost, making a wonderful display and supplying unlimited cut flowers. Ordinary good garden soil will produce fine Snapdragons either in full sun or semi-shaded spots. Sow outdoors when danger of frost has passed, or indoors six weeks earlier.

**ROSALIE.** See inside front cover.

## Super Giants, Rust Resistant

30 to 36 inches tall.

**APPLE BLOSSOM.** Rosy pink, white tube. Pkt. 15c.

**CAMPFIRE.** Luminous scarlet. Pkt. 15c.

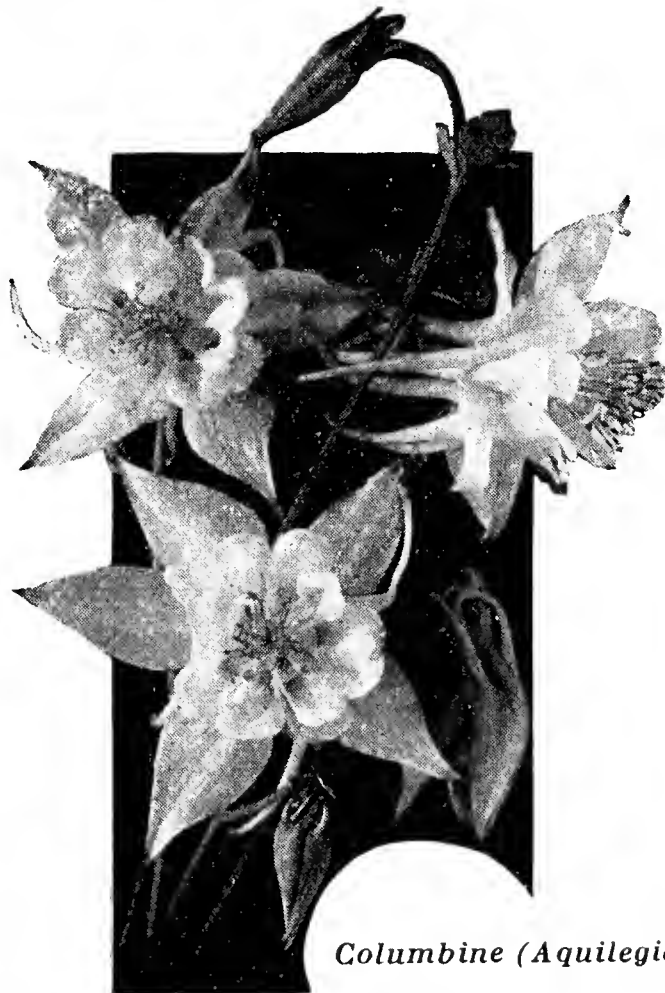
**CANARY BIRD.** Canary yellow. Pkt. 15c.

**COPPER KING.** Bronzy copper. Pkt. 15c.

**CRIMSON.** Fiery crimson. Pkt. 15c.

**LOVELINESS.** Soft rose pink. Pkt. 15c.

**FINEST MIXED.** Pkt. 10c.



*Columbine (Aquilegia)*

## AQUILEGIA, Columbine (p)

These are among the most beautiful of Spring and early Summer flowers; very effective when grown in the herbaceous border and groups among shrubbery. Graceful spurred flowers on stems 2 feet or more above the fern-like foliage.

**MRS. SCOTT ELLIOTT'S STRAIN.** One of the finest tall strains ever developed, long-spurred, large flowers, in a splendid mixture of colors. Pkt. 20c.



## ARCTOTIS, Blue-Eyed African Daisy (a)

This is a sun loving plant better suited to American conditions than any other African Daisy. The petals are white with light lilac backs, radiating from a steel blue and yellow center. Thrives in dry places. Height, 2 to 3 feet.

**GRANDIS.** Pkt. 10c.

## ASTER (a)

We can imagine no other flower which combines so much beauty with grace and usefulness and with which more brilliant effects can be achieved. From July until September this flower reigns supreme in the garden, not equalled by any other. For these obvious reasons we give a great deal of attention to these flowers, and are in a position to offer our patrons remarkably fine strains, producing perfect flowers of great beauty. To do well, Asters require a well pulverized soil, always kept open by continuous cultivation. Height, 1 to 3 feet.

**ASTER EARLY GIANT WILT-RESISTANT, Light Blue.** Silver Medal, All-America Selections 1939. Early blooming, semi-tall, basal braced, non-lateral type. Fully wilt-resistant, extremely large flowered and most attractive. The color is a rich light blue, a shade which blends in beautifully with either deeper or lighter tones. Pkt. 15c.

**IMPROVED GIANTS OF CALIFORNIA.** This Aster bids fair to become a universal favorite. Characterized by the well-known Crego type of flower, combined with the Beauty Aster's long, non-lateral, branching stems, the California Giants, double type Aster, stands at the head of the list.

**Finest Mixed.** Pkt. 15c.

**ASTER, CREGO ENCHANTRESS.** See page 14.

**ASTER SUPER GIANT EL MONTE.** Special Mention, All-America Selections, 1936. Deep glowing crimson, composed of abundant quantities of daintily interlaced plume-like petals, the flowers are extremely large and fluffy, borne on heavy non-lateral, basal branched stems. Pkt. 15c.

**SUPER GIANT LOS ANGELES.** Award of Merit, All-America Selections, 1934. The first introduction in modern Super Giant class, the flowers are fully double, 6 to 8 inches across, graceful and delicately interlaced. Long, stiff stems, bearing the large shell pink flowers smartly upright. Pkt. 15c.

**IMPROVED CREGO WILT RESISTANT.** The large shaggy flowers with long curled petals are not unlike the ostrich feather for which they are commonly named. The plants are strong, heavily branched and grow about 2½ feet in height.

**Crimson.** Glowing deep rose-crimson. Pkt. 10c.

**Pink.** Attractive light shell pink. Pkt. 10c.

**Cattleya.** Fascinating shade of orchid. Pkt. 10c.

**Purple.** Showy violet purple. Pkt. 10c.

**Rose.** Lovely bright carmine rose. Pkt. 10c.

**White.** Purest white, large and fluffy. Pkt. 10c.

**Crego's Finest Mixed.** Pkt. 10c.

**SINGLE CHINA ASTERS. Wilt Resistant.** Not a few flower lovers consider the single forms more artistic and charming than the larger double flowers. The single Asters especially are very beautiful. The large daisy-like blossoms appear in the greatest profusion and are exquisite in bouquets.

**Mixed Colors.** Pkt. 10c.

**AMERICAN BRANCHING. Wilt Resistant.** Plants 2½ to 3 feet tall, branching, robust, flowers large, double and fine form, blooming in early September. Our selected stocks of these are the best money can buy.

**Finest Mixed.** Pkt. 10c.

## BABY'S BREATH (See Gypsophila)

## BACHELOR'S BUTTON (See Centaurea)

## BALLOON VINE, Love-in-a-Puff (a)

A rapid growing annual climber. White flowers are followed by interesting seed pods resembling miniature balloons.

**CARDIOSPERMUM.** Pkt. 10c.

## BALSAM, Lady Slipper (a)

An old and popular garden flower of easy culture. Gorgeous masses of brilliant colored double flowers are produced in the greatest profusion. Height, 2 feet.

**BUSH FLOWERED TORCH.** Brilliant vermilion red; dwarf. Pkt. 15c.

**CAMELIA FLOWERED.** Finest mixed. Pkt. 10c.



*Aster, Crego Enchantress*

## BEAN (a)

A rapid climber, flowering profusely; grows 10 to 15 feet high.

**SCARLET RUNNER.** Pkt. 5c.

## BELLIS, English Daisy (p)

A favorite perennial, which will stand the Winter if given the protection of a little litter. In bloom from early Spring until well on in the Summer. Seed may be sown any time from Spring until August. For best results, new plants should be raised from seed each year. Height, 3 to 6 inches.

**Double Finest Mixed.** Pkt. 10c.

## BLACK-EYED SUSAN (See Thunbergia)

## BRACHYCOME, Annual Cineraria (a)

Brilliant free-flowering annual blooming throughout the Summer months and suitable for beds or borders. The dainty flowers resemble small Cinerarias. Height, 6 to 12 inches.

**Mixed Colors.** Pkt. 10c.

## CALENDULA, Pot Marigold (a)

The colorful flowers make a wonderful display in the garden and are always admired by those who see them. Blooms freely in early Summer and continues into the Fall. Even though this plant prefers a sunny location and rather dry soil, it does well under widely different conditions, requiring little care to grow to perfection. 18 to 24 inches in height.

**ORANGE FANTASY.** Silver Medal, All-America Selections 1938. Distinct. Rather dwarf, heavy foliaged plants. 18 to 24 inches. Crested flowers of coppery orange, with petals edged mahogany. True. A fine novelty. Pkt. 10c.

**CAMPFIRE IMPROVED.** A very deep strong orange with distinct scarlet sheen on upper side of each petal. Blooms flat across top and measure 4 inches in diameter. Plants are strong growing and even in habit. Exceptionally long heavy cutting stems in generous quantity on each plant. Pkt. 15c.

**NEW SUNSHINE CALENDULA, CHRYSANTHA.** Gold Medal Winner, All-America Selections, 1934. A clear, buttercup yellow in color with loosely arranged petals, incurved at center and reflexed at edges. Flowers mounted on strong, wiry stems a foot in length; excellent for cutting. Pkt. 10c.

**RADIO.** A late English introduction, a distinct new break. Flowers very full, petals quilled. Color a rich glowing orange. Pkt. 10c.

CALIFORNIA POPPY (See Eschscholtzia)

CALLIOPSIS, Tickseed (a)

Very showy and splendid subjects for garden decoration as well as for cutting. Sow seed where intended to bloom in early Spring; thin out to 6 inches apart. Cut flowers as soon as they open, as this prolongs the blooming season until Autumn. Height, 1/2 to 2 1/2 feet.

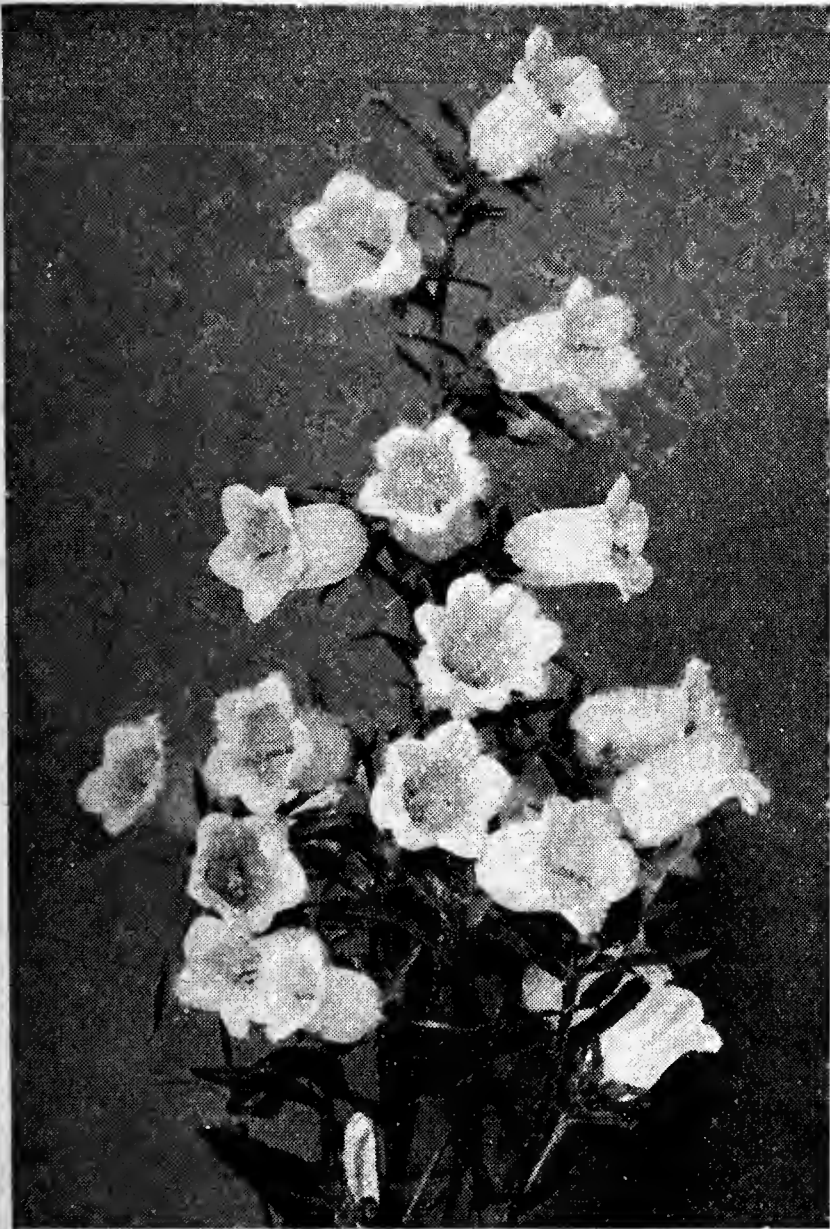
**GOLDEN CROWN.** Silver Medal, All-America Selections 1938. An enlarged Drummondii. A rich orange-yellow or gold of pleasing fragrance. Makes a good cut flower with 12-inch wiry stems. Similar to Golden Crest. Pkt. 10c.

**Tall Mixed.** Pkt. 10c.      **Dwarf Mixed.** Pkt. 10c.

CAMPANULA, Canterbury Bell

**CALYCANTHEMA.** (b) (Cup and Saucer). Perhaps the most beautiful type; distinct in form, with large bell or cup-shaped flowers surrounding at the base by a large calyx of similar color, the whole resembling a cup and saucer. **Finest Mixed.** Pkt. 10c.

**ANNUAL CANTERBURY BELLS.** (a) Gold Medal, All-America Selections, 1933. We have all wished for a Canterbury Bell that would not occupy the ground for so long before it flowered. When planted from seed, loads itself with flowers in less than five months, in colors the same as the biennial type, including the various shades of blue, pink, rose, and white. **Finest Mixed.** Pkt. 15c.



Campanula (Canterbury Bell)

CANDYTUFT, Iberis (a)

Valuable for masses and edging, and considered indispensable for cutting. Seed sown in April flowers in June, successive sowings should be made at intervals. Hardy and easy to grow, blooming profusely. Height, 1 foot.

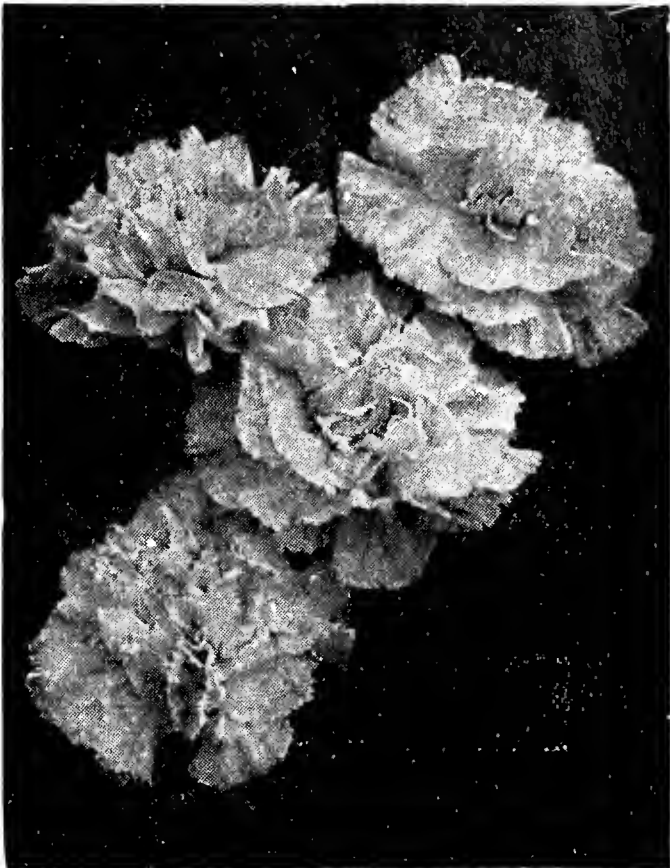
**UMBELLATA.** Giant white Hyacinth flowered. Very fine for cutting. Pkt. 10c.

**UMBELLATA.** Mixed. Pkt. 10c.

CARDINAL CLIMBER (ac)

Gracetul climber with cardinal-scarlet blooms 1 to 1 1/2 inches in diameter. Rich, glossy, dark green foliage. Grows 15 feet tall and is in bloom all Summer.

**IPOMOEA CARDINALIS.** Pkt. 10c.



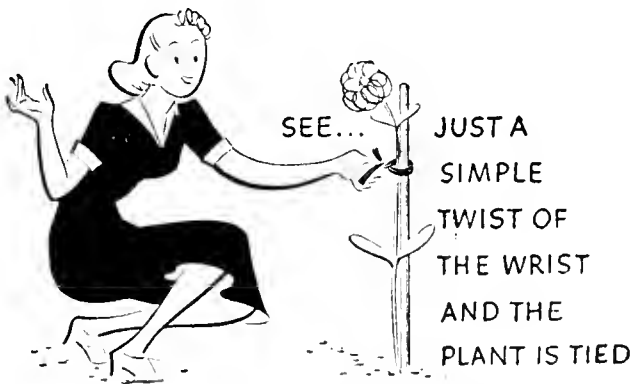
Carnations

CARNATION, Dianthus Caryophyllus (p)

Few flowers surpass in beauty of form or delicious fragrance, the richly hued Carnation. The plants are branching but compact, and the handsome blossoms are produced on blue-green stems that are stiff but slender. The double flowers with their thick waxy petals are spicily scented.

**CHABAUD GIANT.** 18 inches. This variety blooms six months after seeding and continues throughout the Summer. The plants, robust and erect, supply handsome, double, clove-scented flowers of extra large size. **Mixed.** Pkt. 10c.

CASTOR BEAN (See Ricinus)



'TWIST-EMS'

FOR NURSERIES,  
ESTATES AND  
AMATEUR  
GARDENERS

'Twist-ems' are dark green strong tapes with wire reinforcing that make perfect plant ties. Place 'Twist-ems' around stem and support. Twist ends between thumb and finger. In a "flash" the stem is securely tied.



Box of 125, 8-inch size.....25c  
Box of 250, 4-inch size.....25c



## CELOSIA, Cockscomb (a)

Very attractive and showy, somewhat tender annual, producing massive heads in rich shades of crimson and yellow flowers. Should be started in hot beds and transplanted to rich soil after warm weather comes. Set plants a foot or more apart.

**CRISTATA.** Choice mixed; height, 9 to 18 inches. **Pkt. 10c.**

**PLUMOSA** (Improved Feather Type). Choice mixed; height, 2 feet. **Pkt. 10c.**

## CENTAUREA

Particularly well adapted for border planting. The types cultivated for their flowers have bulging calyxes from which many finely cut petals expand. Others have a downy growth on their leaves, making the foliage quite ornamental. All of them are of easy culture from seed.

**CORNFLOWER, JUBILEE GEM.** Silver Medal, All-America Selections 1937. A dwarf variety of Cornflower making a compact plant literally covered with flowers. About 12 inches in height. Easy to grow. Admirable as a border plant. A fine cut flower. It may be sown outside in the autumn for spring flowering, or in the spring for summer flowering. **Pkt. 10c.**

**CYANUS DOUBLE** (a) (Bachelor Button). This superb class of Cornflowers produces handsome, large double blooms, effective out-of-doors and in bouquets. Height, 2 to 3 feet. **Mixed. Pkt. 10c.**

**SWEET SULTAN.** (a) These beautiful long stemmed flowers with their soft velvety heads make very enchanting bouquets. They measure 2 to 2½ inches across while the entire plant stands about 2½ to 3 feet tall. You can grow them readily in any fair garden soil, and your friends are sure to admire them.

**Mixed. Pkt. 10c.**

## CHINESE LANTERN PLANTS

(See *Physalis Francheti*)



*Coronarium Chrysanthemum*

## CHRYSANTHEMUM (a)

A showy and much admired class of flowers. Large, daisy-like blooms borne profusely during the Summer and Fall. Excellent for beds, borders and cutting.

**FINEST SINGLE MIXED.** Includes all colors and gives a wonderful display in beds or borders. **Pkt. 10c.**

## CLARKIA (a)

An annual, flowering in July, which should be far more widely known. It is of easy cultivation, graceful in habit of growth, and lends itself as well to bedding as for cutting. Flowers in long racemes which open in water when cut.

**ELEGANS.** Double. Choice mixed. Height, 2 feet. **Pkt. 10c.**

## COCKSCOMB (See Celosia)

## COLUMBINE (See Aquilegia)

## CONE FLOWER (See Rudbeckia)

## COREOPSIS (p)

One of our most popular perennials; the attractive flowers are borne in great profusion and are excellent for cutting. Height, 3 feet.

**GRANDIFLORA DOUBLE SUNBURST.** Much of the beauty of early Summer gardens is due to the brilliant golden yellow of Coreopsis plantings. The double flowers are large, 1½ to 2 inches across, deep golden yellow, and are excellent for cutting as well as for garden decoration. Fine keepers; plants are easy to grow. **Pkt. 20c.**

## CORNFLOWER (See Centaurea)



*Cosmos, Sensation White*

## COSMOS (a)

No garden is complete without Cosmos. These old favorites supply a gorgeous, colorful effect during late Summer and Fall. Fine for cutting as the flowers last well in water, Cosmos are easy to grow.

**SENSATION PINKIE.** The finest new development in Cosmos. Flowers very large, as much as 5 inches in diameter, with broad, heavy fluted petals slightly overlapped. Ideal for cut flowers. Sturdy plants 3 to 4 feet high, producing flowers 8 to 10 weeks from seed. **Pkt. 10c.**

**SENSATION PURITY.** Purity is the glistening white Cosmos in the Sensation type as Pinkie is the delightful rose pink shade. **Pkt. 10c.**

**EARLY KLONDYKE ORANGE FLARE.** Grand Champion Gold Medal, All-America Selections, 1935. The long stemmed flowers of bright vivid orange are freely borne on 2 to 3 foot plants. Its most remarkable feature, however, is its early blooming habit. It blooms from mid-summer until frost. **Pkt. 10c.**

**EARLY DOUBLE CRESTED.** Showy plants, 3 to 4 feet tall, covered with a mass of lovely, large flowers. Our strain produces a large percentage of double blooms.

**EARLY DOUBLE, mixed. Pkt. 15c.**

## CYPRESS VINE (See Ipomoea Quamoclit)

## DAHLIAS (From Seed) (rp)

**UNWIN'S DWARF HYBRIDS.** These double and semi-double dahlias are one of England's best contributions to the flower world. They grow from 18 inches to 2 feet tall and come in many delightful shades. Plants are compact and as easy to grow as zinnias. Bloom the whole Summer.

**Mixed Colors. Pkt. 25c.**

## DIANTHUS, Pinks (a)

A charming class of annual flowers for beds, borders, edgings, and cutting. The dwarf, rather compact plants average 1 foot in height. Of easiest culture, succeeding in ordinary garden loam. Blooms from July until frosts.

**LACINIATUS SPLENDENS.** Free flowering and easily grown, neat and compact in habit, bearing generous quantities of its large, sweet scented single flowers of brilliant crimson, with a white eye. **Pkt. 15c.**

**HEDDEWIGII LACINIATUS DOUBLE MIXED** (Japan). Superb flowers rivaling the Carnation in size and doubled blossoms. Excellent for bouquets. **Pkt. 10c**

**HEDDEWIGII SINGLE MIXED.** Large finely marked flowers having fringed petals. **Pkt. 10c.**

## DELPHINIUM. (p)

One of the greatest charms of hardy Larkspurs is in their shades of blue which range from soft rosy lavender to violet and deepest indigo. The dwarfs are valuable in the border while the magnificent tall varieties are stately and beautiful in front of a shrubby background. Above the deeply cut dark green leaves rise long floral spikes. Height, 1 to 8 feet.

**TALL HYBRIDS.** Handsome sorts adapted to backgrounds. Plants grown from early sown seed will flower late the first season, but reach their full development the second year and thereafter. Height, 5 feet.

**BELLADONNA.** A delightful shade of silvery blue. **Pkt. 15c.**

**BELLAMOSUM.** Rich, deep and intense blue. **Pkt. 15c.**

**BLACKMORE and LANGDON HYBRIDS.** Latest and highest development of the Hollyhock type of Delphinium. Very large single, semi-double, and double flowers. All the past shades from very light blue to indigo. **Pkt. 15c.**



*Digitalis*

## DIGITALIS, Foxglove (b)

This ornamental hardy plant is used extensively for naturalizing in shrubby borders and along the edges of woods. It grows well under almost all conditions, giving a wealth of bloom during June and July. Height, 4 to 6 feet.

**GLOXINIAEFLORA.** This is an improved strain of the ordinary Foxglove, with handsome spotted Gloxinia-like flowers on long spikes. **Mixed Colors. Pkt. 10c.**

## DIMORPHOTHECA African Golden Daisy (a)

The plants are of branching habit, growing about 15 inches high. An easily cultivated annual.

**AURANTIACA HYBRIDS.** The flowers are equally large, but vary in color from the purest white to yellow, orange and rich salmon shades, many being zoned with several of these colors around the black disk. **Pkt. 10c.**

**ORANGE IMPROVED.** **Pkt. 10c.**

## ENGLISH DAISY (See Bellis)



*California Poppy*

## ESCHSCHOLTZIA, California Poppy (a)

The state flower of California and one of the most attractive low growing annuals. The foliage is finely cut, fern-like, and silvery green in color. They start to bloom a few weeks after the seed is sown. Height, 12 to 18 inches.

**RAMONA HYBRIDS.** A new strain containing many lovely shades. The plants grow compact and upright, with flowers beautifully fringed. **Mixed Colors. Pkt. 10c.**

**DOUBLE ESCHSCHOLTZIA.** The flowers are like little silken flags, beautifully fluted and crinkled, double and semi-double. The colors are yellow, orange, salmon. **Mixed Colors. Pkt. 10c.**

**AURANTIACA, ORANGE.** The ordinary California Poppy. **Pkt. 10c.**

## EVENING PRIMROSE, Oenothera (b)

A twilight blooming plant. Flowers of brilliant yellow are often 3 inches across. Clusters of them decorate the tops of upright spikes which are arranged in the form of a candelabra. Height, 2 to 6 feet.

**LAMARCKIANA. Pkt. 10c.**

## FLAX (See Linum)

## FORGET-ME-NOT, Myosotis (b)

The Alpestris varieties bloom in April and are largely used for bedding and borders, while other varieties bloom in May and continue until frost. Height, 6 to 12 inches.

**ALPESTRIS, BLUE.** Blue with white eyes. **Pkt. 10c.**

## FOUR O'CLOCK, Marvel of Peru (a)

A favorite showy annual for beds and borders. Excellent for planting in front of the porch or alongside the house. The plants bloom freely from July until frost.

**TALL, MIXED.** 2 feet tall, in many fine colors. **Pkt. 10c.**

## FOXGLOVE (See Digitalis)



## GAILLARDIA, Blanket Flower

Tones of orange, yellow, red, and maroon, often beautifully combined in a single blossom, make these flowering plants gay ornaments of the garden all Summer. Height, 1 to 2 feet.

**SINGLE PICTA MIXED.** (a) Large daisy-like blossoms of yellow and bronze with central cones of yellow. **Pkt. 10c.**

**DOUBLE PICTA LORENZIANA MIXED.** (a) Globular heads of tubular florets in shades of sulphur, orange, and claret. **Pkt. 10c.**

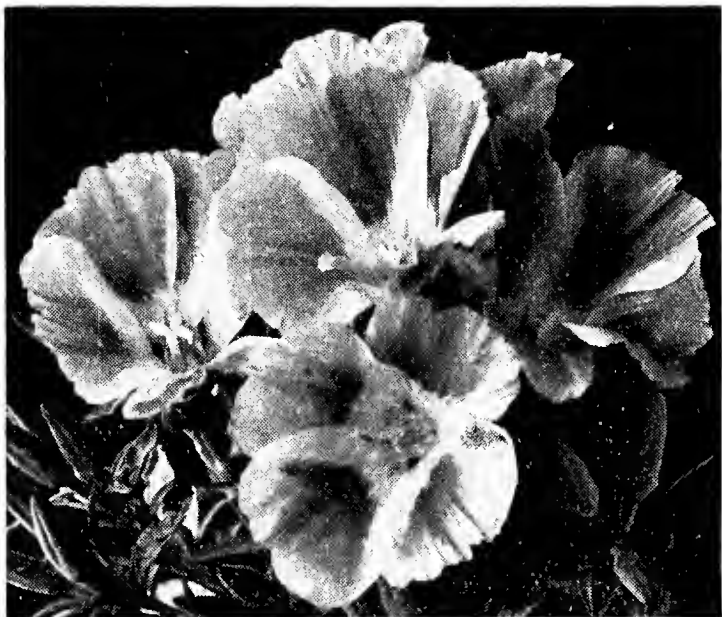
**GRANDIFLORA PORTOLA HYBRIDS.** (p) Semi-double blooms of magnificent size and broad overlapping petals, golden tipped around glowing centers of bronzy red. **Pkt. 15c.**

## GEUM, Avens (p)

Beautiful hardy perennials, bearing profusely large, showy, double, dark crimson flowers all through the Summer. An elegant flower for bouquets. Height, 18 inches.

**LADY STRATHEDEN.** A new golden yellow with large full flowers of great beauty. **Pkt. 10c.**

**MRS. BRADSHAW.** Large, double, brilliant orange-scarlet in flower throughout the entire Summer. **Pkt. 10c.**



## GODETIA, Satinflower (a)

Very handsome annual plants especially suited for semi-shady locations. Sow in Spring in the open and thin to 8 or 10 inches apart. The flowers are bright and colorful and the single sorts are not unlike the Azalea in form.

**TALL DOUBLE.** Long graceful spikes are decorated with double blossoms resembling satin pompones one above another. Height 2 feet. **Choice Mixed Colors. Pkt. 10c.**

## ORNAMENTAL GOURDS (ac)

Ornamental Gourds are easily grown in rich soil, where they will produce plenty of fruits. They may be trained on trellises and the ripened fruits used for ornaments.

**Small Mixed. Pkt. 10c.**

**Large Mixed. Pkt. 10c.**

## GYPSOPHILA, Baby's Breath

Pretty, free-flowering annuals and perennials. Their misty white panicles are largely used for mixing with other cut flowers. Height, 1 to 3 feet.

**ELEGANS GRANDIFLORA.** (a) London Market Improved. An improved annual strain with single large pure white flowers. Sow at intervals for a supply of flowers throughout the Summer. Height, 2 feet. **Pkt. 10c.**

**PANICULATA WHITE.** (p) Hardy perennial with sprays of tiny rose-shaped blooms. If cut before the flowers are fully opened, sprays can be used in winter bouquets. Height, 3 feet. **Pkt. 10c.**

## HELIANTHUS, Sunflower (a)

Well known and popular plants, the small flowering sorts being useful for cutting. The tall varieties are valuable for backgrounds.

**CHRYSANTHEMUM FLOWERED.** Large densely double, golden flowers. Fine, long stout stems for cutting. Height, 6 feet. **Pkt. 10c.**

**CUT-AND-COME-AGAIN, MIXED.** Single golden yellow flowers with petals twisted like a Cactus Dahalia. (Small flowered sort.) **Pkt. 10c.**

**RUSSIAN MAMMOTH.** Immense single yellow flowers on tall heavy stalks. Height, 6 feet. **Pkt. 10c.**

## HELICHRYSUM, Straw Flower (a)

The finest of all Everlastings. They make unusually fine Winter bouquets if cut when partially opened and dried slowly in a cool place, heads downward to keep the long stems straight. The centers of the double pompon-like flowers are nearly covered by the stiff overlapping petals. A wide range of brilliant and soft colors. Height, 2 to 3 feet.

**Finest Mixed. Pkt. 10c.**

## HELIOTROPE

A well known and highly prized plant because of the delightful fragrance of the flowers. Excellent for pots, or for bedding. Height, 18 inches.

**Choice Mixed. Pkt. 10c.**

## HOLLYHOCK, Althaea (p)

The beautiful color effects produced by the planting of these flowers, render them indispensable for the old-fashioned garden or the herbaceous border. Height, 6 to 12 feet.

**INDIAN SPRING.** See page 14.

**SINGLE ANNUAL, Finest Mixed. Pkt. 10c.**

**DOUBLE, CHATER'S Finest Mixed. Pkt. 10c.**

## HUNNEMANNIA

### Mexican Tulip Poppy (a)

Seed sown early in May will, by the middle of July, produce plants covered with their large buttercup yellow, poppy-like blossoms, and are never out of flower until hard frost. The plants grow 2 feet high, with beautiful feathery foliage.

**SUNLITE.** Award of Merit, All-America Selections. Semi-double, canary yellow. **Pkt. 10c.**

## ICELAND POPPY (See Poppy Nudicaule)

### IPOMOEA, Morning Glory (ac)

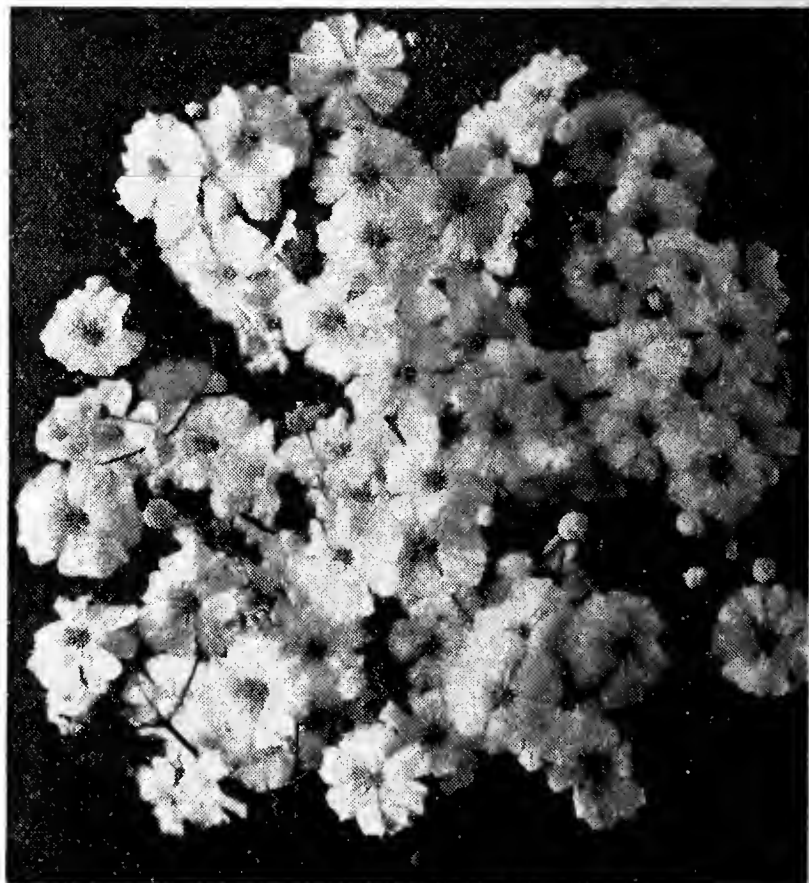
Climbers of rapid growth, with beautiful and varied flowers. For covering walls, trellises, arbors, they are invaluable.

**HEAVENLY BLUE.** A variety that is bringing new popularity to Morning Glories. It is an early blooming climber, literally covered with lovely flowers of sky-blue. Flowers 3 1/2 inches across and blooms until frost. **Pkt. 15c.**

**ROSE MARIE.** An early flowering variety. Rose-pink, double and semi-double flowers. **Pkt. 10c.**

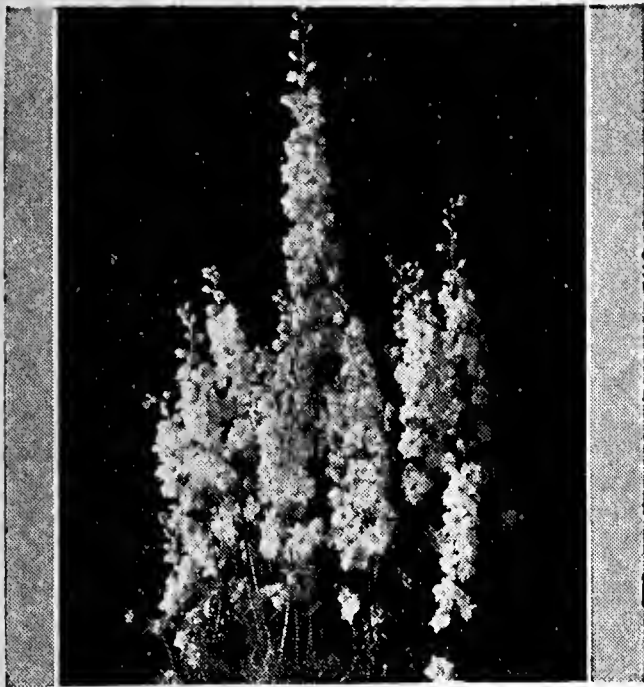
**SCARLETT O'HARA.** See page 14.

**MIXED IMPERIAL JAPANESE.** These are beyond question the handsomest of all Morning Glories. The flowers are of gigantic size and their colorings beyond description. **Pkt. 10c.**



*Gypsophila Elegans Improved*

All of our seeds are tested for purity and high germination.



*Larkspur, White King*

## LARKSPUR (a)

Annual Delphiniums are adorned with finely cut, feathery foliage which sets off to advantage the handsome long floral spikes of double blossoms. The colors range from pure white through soft shades of lavender and pink to deep blue.

**GIANT IMPERIAL.** Tall, upright, compact, basal branching in habit, the Giant Imperials have superseded all other types of Larkspurs for general garden use. Their delphinium-like spikes of double florets are carried on stout stems 4 to 5 feet.

**GIANT IMPERIAL PINK PERFECTION.** See page 14.

**WHITE KING.** Special Mention, All-America Selections, 1937. The flowers are a pure, glistening white, with extremely large double florets, sometimes measuring 2 inches across, evenly spaced on the stem. Early, the finest Larkspur. Pkt. 15c.

**CORAL KING.** Coral King was a running mate to White King for All-America recognition. It has the same form and size and is different only in color—a beautiful coral pink. Pkt. 15c.

**BLUE SPIRE.** Very deep violet blue. Outstanding blue. Pkt. 15c.

**LOS ANGELES IMPROVED.** Brilliant pink on salmon. Pkt. 15c.

**Finest Mixed.** Pkt. 15c.

**TALL DOUBLE STOCK FLOWERED.** A strikingly tall variety with lateral branches which produce many fine spikes.

**Rosamond.** Gold Medal Winner, All-America Selections, 1934. Exceptionally uniform in habit, bearing bright rose flowers that hold their color. Is two weeks earlier than other varieties. Pkt. 10c.

**Finest Mixed.** Pkt. 10c.



## IRRIGATE Your Garden Correctly

Save time and labor. Full volume delivered without force. No washing of soil—no damage to tender plants. Waterwand weighs only a pound. Easy to handle — reach the back of your deepest flower bed. May be left on the ground for long deep soaking. Waterwand irrigation encourages deep sturdy roots, makes plants drought resistant and longer-lived. Every gardener needs a Waterwand.

52-inch length recommended size. 35 and 19-inch lengths available for potted plants and bench work.

FITS STANDARD GARDEN HOSE **\$2.25**

## LANTANA (a)

A Brazilian shrub that makes a splendid display the first season from seed. Above the large somber green leaves Verbena-like clusters of fragrant flowers rise in prolonged succession. In a single cluster all the shades of crimson, rose, yellow, and orange appear.

**MIXED HYBRIDS.** Pkt. 10c.

## LINUM, Crimson Flax (a)

**GRANDIFLORUM RUBRUM.** An old favorite with large, rich crimson blooms borne profusely on plants growing 18 to 24 inches tall. Through the flowers last only one day, new ones appear every morning. Pkt. 10c.

## LOBELIA (a)

A dainty and continuous blooming annual of compact growth, remarkable for its profusion of beautiful blue flowers. Unexcelled for edging, ribbon beds, hanging baskets or window boxes. Height, about 6 inches.

**COMPACTA, CRYSTAL PALACE.** Erect and very free blooming. Best dark blue for edging. Fine for pots. Pkt. 10c.

## LUPIN, Sun Dials

Thrive in almost any situation. Sow where they are to bloom in May, and as plants grow, thin out to 1 foot apart. The annual varieties bloom freely from June until September, and the perennials make a fine addition to the hardy border.

**HARTWEGII, ANNUAL, MIXED.** 2 feet high. All shades and colors. Gorgeous. Pkt. 10c.

**POLYPHYLLUS PERENNIAL, MIXED.** 3 feet high. Long spikes of blossoms in Spring and early Summer. Hardy. Pkt. 10c.

## MIGNONETTE, Reseda Odorata (a)

This old-fashioned flower still enjoys the greatest popularity. Grown for its sweet perfume, which is most pronounced when grown in a light sandy soil. Height, 6 to 10 inches.

**FINEST MIXED.** Includes only large flowering varieties of sweet scented Mignonette. Pkt. 10c.

## MORNING GLORY (See Ipomoea)

## MOSS ROSE (See Portulaca)

## NEMESIA (ra)

This plant is excellent for edging purposes. Plants send up many slender stalks crowned with fairy-like flowers, something like the Schizanthus. When the flowers fade they may be trimmed back and will bloom again. Their colors run from the brightest reds, yellows, oranges, to the brightest blues and purples. Height, 6 to 12 inches.

**COMPACTA TRIUMPH, FINEST MIXED COLORS.** Pkt. 15c.

## NICOTIANA, Flowering Tobacco (a)

Stately plants producing large, trumpet shaped blooms until frost. Fine for beds and borders. Height, 2 to 5 feet.

**AFFINIS HYBRIDS, MIXED COLORS.** Pkt. 10c.

## PANSY, Heart's Ease (b)

When the bright hues of the Tulips and Daffodils have faded, the rich, deep and varied shades of the Pansies provide a welcome change in the flower beds. The varieties listed produce large blooms of good substance, regular markings, and full rich coloring. Low growing.

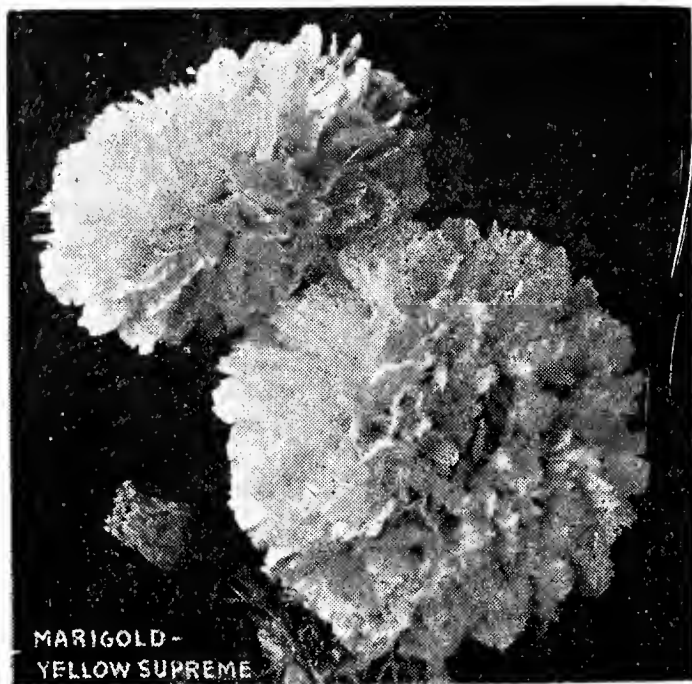
**PANSY, SWISS GIANT.** A remarkably fine improved strain of Pansies for the home gardener. Plants are compact in habit, producing immense circular flowers over a long blooming season. Fine range of attractive shades. Pkt. 25c.

**STEELE'S MASTODON.** A vigorous Oregon type, particularly desirable for cutting as the plants are taller and have longer stems. Esteemed for bedding. A fine blend for bright effects.

**Finest Mixed.** Pkt. 25c.

**POPULAR BEDDING MIXTURE.** These are the popular saucy-faced beauties that everybody loves, comprising the finest varieties in all colors. Pkt. 10c.





## MARIGOLD (a)

Late in the season when many other growing things are past their prime, these plants supply an abundance of decorative blossoms. Their tones of orange and yellow blend well when the flowers are arranged loosely in bowls and vases. The bright green foliage is finely cut, and the stems are stout. Tall Marigolds give charm to the border, while the dwarfs are valuable for bedding and edging plants.

**MARIGOLD, HARMONY HYBRIDS.** See inside front cover.

**EARLY SUNSHINE.** See inside back cover.

**NEW COLLARETTE MARIGOLD, Crown of Gold.** Gold Medal, All-America Selections 1937. A new kind of Marigold with a Chrysanthemum-like crown surrounded by a collar of big, broad petals of the same color, bright golden orange. The only Marigold with entirely odorless foliage. Flowers have a delicate fragrance. Blooms early, profusely and continuously until frost. Wonderful for cutting. **Pkt. 10c.**

**MARIGOLD GIGANTEA SUNSET GIANTS.** Very showy, fragrant, and of exceptional size. Flowers are largest ever known in Marigold group, averaging 5 to 7½ inches. A mixture ranging from deep orange through golden orange, deep golden yellow, light yellow, lemon yellow, and a delightful new shade of primrose. **Pkt. 10c.**

**AFRICAN TALL DOUBLE** (*Tagetes erecta*). Very large globular flowers composed of compact tubular or quilled petals. The stems should be cut carefully to avoid the disagreeable odor when bruised. Height, 2½ feet.

**GUINEA GOLD** (African). Carnation-like petals and unusually brilliant golden color makes this flower outstanding among Marigolds. It lacks much of the pungent odor of other Marigolds. The plant blooms very freely. Height, 2 feet. **Pkt. 10c.**

**YELLOW SUPREME.** Gold Medal, All-America Selections, 1935. It is a companion flower to Guinea Gold. The color is a delightful light lemon yellow, flowers medium sized, loosely ruffled. Free-blooming, 2 feet tall. **Pkt. 10c.**

**FRENCH** (*Tagetes patula*). This Marigold is more floriferous than the Africa, but bears smaller flowers. As a rule, instead of being quilled the petals are flat and overlapping. They are often two-toned, which adds to their beauty.

**TALL DOUBLE.** These are useful for border decorations and produce handsome cut flowers. Height, 2 feet.

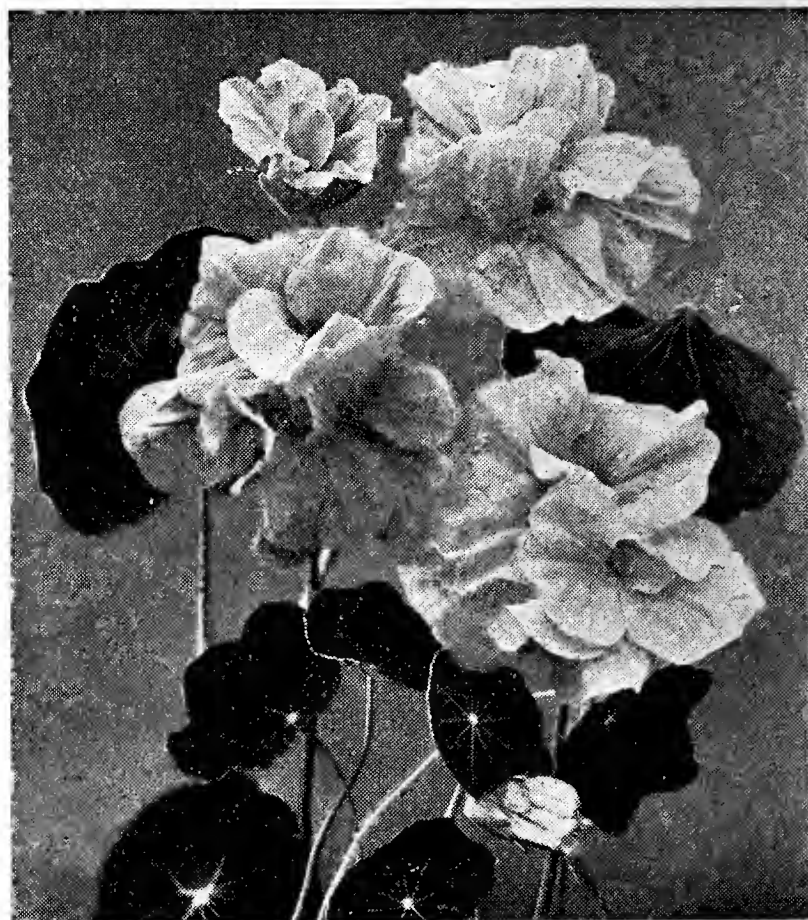
**Mixed Shades. Pkt. 10c.**

**DWARF FRENCH, DOUBLE, MONARCH STRAIN.** Award of Merit, All-America Selections, 1934. An excellent variety for low borders. A very compact type; with large double flowers, in a wide range of colors, in combination of orange, bronze, yellow and mahogany.

**Finest Mixed. Pkt. 10c.**

**MARIGOLD, DWARF ROYAL SCOT, ALDDOUBLE.** Special Mention, All-America Selections 1937. Royal Scot is a new achievement in Marigolds, new in color and new in that it is dwarf and double. Its growth is dwarf and bushy, every plant of a uniform shape and height of about 10 to 12 inches. Color is a rich mahogany and gold in uniform stripes. **Pkt. 10c.**

**Mixed Shades. Pkt. 10c.**



## NASTURTIUM (a)

Few garden annuals respond with as little care as the Nasturtium. For ease of culture, duration of bloom, brilliancy of coloring, they are unexcelled. All they need is a moderately good soil, in a well drained, sunny position and within a few weeks from the time they are sown until hard frost comes, there is an endless profusion of their gorgeous blossoms.

**INDIAN CHIEF.** See page 14.

**GOLDEN GLEAM.** Plant forms a vigorous large bush which throws out short runners, averaging 18 inches. The sweet scented, large double flowers are golden yellow and average 2 to 3 inches across. **Pkt. 10c.**

**SCARLET GLEAM.** A sister of Golden Gleam. Its semi-double blossoms are similar in size and shape to those of the popular golden Nasturtium. Rich, dazzling scarlet. Sweet scented. Fine for cutting. **Pkt. 10c.**

**GLORIOUS GLEAM HYBRIDS.** Award of Merit, All-America Selections 1935. Delightfully sweet scented; double. Color range includes brilliant blend of salmon, golden yellow, orange scarlet, cerise, cream, orange, maroon and crimson shades, and many spotted varieties.

**Finest Mixed. Pkt. 10c.**

**DWARF DOUBLE GOLDEN GLOBE.** Award of Merit, All-America Selections 1936. Vivid golden yellow, identical in color to Golden Gleam. Plants uniformly dwarf and compact, and bear great quantities of semi-double sweet scented flowers. Excellent for edging and window boxes. **Pkt. 10c.**

**TALL OR CLIMBING NASTURTIUMS.** For covering trellises, fences, arbors, piazzas, trailing from vases, over rock-work, etc., nothing can equal their great quantities of bloom from early Summer until frost. The seed pods can be gathered while green and tender for pickling. Height, 8 to 10 feet.

**Finest Mixed. Pkt. 10c.**

**DWARF OR BEDDING VARIETIES.** Of dwarf, compact growth. Excellent for borders or for bedding, forming plants about 1 foot high by 1 foot across.

**Finest Mixed. Pkt. 10c.**

## PAINTED DAISY (See Pyrethrum)

## PAPAYER (See Poppy)

## PENTSTEMON, Beard Tongue (p)

Beautiful perennial plants for the hardy border.

**NEW HYBRIDS, MIXED.** Produce large spikes. 3 feet. **Pkt. 10c.**

## PETUNIA (a)

The seed may be started indoors early in the year in seed boxes and later transplanted or sown out of doors in the Spring. Cover very lightly and apply water with a fine spray. Be careful not to discard the smaller and weaker seedlings. From these the finest flowers are often obtained, the coarse growing plants frequently reverting to the common types.

**PETUNIA HYBRIDA** (Single Bedding). 1 1/2 feet. This is a spreading type of Petunia and is used extensively for mass planting and large beds. Very satisfactory for small gardens.

**FLAMING VELVET.** Gold Medal, All-America Selections 1936. Petunia Flaming Velvet has caused a sensation because of uniform excellence of its velvety, rich, blood-red flower. Plants are semi-compact in habit, about 15 inches in height, absolutely uniform, and the flowers are large and borne in great profusion. **Pkt. 15c.**

**ROSE KING IMPROVED.** Special Mention, All-America Selections 1936. Its flowers are a clear rich rose with a delicate light golden throat. Plants grow 18 inches high, are uniform and bushy, literally covered with blooms. This is an excellent cut flower variety. **Pkt. 15c.**

**PETUNIA HYBRIDA NANA COMPACTA.** 1 foot. A fine type of Petunia for small beds and borders; often used for pot culture. This Petunia holds its habit very well throughout the blooming season.

**Heavenly Blue** (Silver Blue). Enchanting shade of light silvery blue. Dwarf. **Pkt. 15c.**

**Rosy Morn.** Soft rose-carmine-pink with a white throat. Dwarf and close-growing. **Pkt. 10c.**

**Snowball.** Pure white; very compact. **Pkt. 10c.**

**Mixed.** All colors. A very decorative show may be had by sowing these broadcast. **Pkt. 10c.**

### Single Balcony Petunias

A splendid large and free-flowering type for window boxes, vases, hanging baskets, etc. The flowers average 3 inches across.

**DEEP BLUE.** Certificate of Honor, Royal Horticultural Society 1935. **Pkt. 15c.**

**ROSE.** Rich fiery rose. **Pkt. 15c.**

**WHITE.** Award of Merit, Royal Horticultural Society 1935. **Pkt. 15c.**

**Mixed Colors.** **Pkt. 15c.**

### Large Flowered Varieties

**BURGUNDY.** Special Mention, All-America Selections 1937. A large flowered, plain edged variety, colored a beautiful velvety burgundy-red in lovely contrast to its inconspicuous white throat. **Pkt. 15c.**

**ELK'S PRIDE.** Very large deep purple. **Pkt. 15c.**

### Grandiflora Single Fringed

**DAINTY LADY.** Award of Merit, All-America Selections 1936. The flowers are medium sized, daintily fringed, delicate light yellow deepening to a golden yellow at the throat. Plants are compact and upright in habit, semi-dwarf and free flowering. **Pkt. 20c.**

**PRIDE OF PORTLAND.** Bright rose pink. **Pkt. 20c.**

**Mixed Colors.** **Pkt. 10c.**

### Ruffled Giants of California

Ruffled monsters, a half dwarf type of erect and robust habit. The flowers are very large and ruffled, with open shallow throats. The colors are mostly the desirable red and dark shades, richly marked and veined.

**Mixed Colors.** **Pkt. 25c.**

**SUPREME STRAIN.** See page 14.

### Dwarf Giants of California

A dwarf sturdy growing type especially suited to pot culture. Flowers are beautifully ruffled and fringed with open well marked throats.

**RAMONA STRAIN.** Mixed colors. **Pkt. 25c.**

### Double Varieties

We offer the finest strain of double Petunias and suggest that seed be started indoors in boxes or pans. The small, crumpled seedlings will give the finest flowers.

**Choice of Mixed Colors.** **Pkt. 35c.**

**TRIUMPHANT.** All Double Mixed. Award of Merit, All-America Selections 1934. All double giant fringed. Mixed colors. **Pkt. 50c.**



### Petunia Miniature (Dwarf Compact Varieties)

**MINIATURE RUFFLED BETSY ROSS.** See inside front cover.

**ROSE GEM.** Award of Merit, All-America Selections 1936. Rose Gem is the best new miniature Petunia. The flowers are a deep rich rose on neat compact plants, 6 inches high. Each flower is 2 inches in diameter. **Pkt. 15c.**

**MARTHA WASHINGTON.** A lovely novelty of dwarf, compact growth, 9 inches high, smothered with brilliant blooms about 3 inches in diameter. The frilled portion of the flowers is a flesh pink, the center is veined wine red. **Pkt. 25c.**

## PHLOX DRUMMONDI (a)

A valuable and showy annual highly esteemed for bedding, for massing and for borders. The plants grow about 1 foot high, thrive in practically any soil if given a sunny location and bloom the entire season. Seed may be started in boxes and transplanted or sown in the open in Spring.

**PHLOX GIGANTEA, SALMON GLORY.** See inside back cover.

**GRANDIFLORA.** Comes in a grand mixture of fine colors. **Pkt. 10c.**

**GIGANTEA ART SHADES.** A new strain of annual Phlox with single florets as large as an inch and one-half in diameter. The colors are soft pastel shades, such as apple blossom pink, salmon, light blue, pale violet, etc. **Pkt. 15c.**

## PHYSALIS FRANCHETI Chinese Lantern Plant (b)

This hardy biennial plant grows to a height of about 2 feet and is a profuse bloomer, producing many large, striking flowers of a beautiful, brilliant orange red color resembling Chinese lanterns in shape.

**FRANCHETI.** **Pkt. 10c.**

## PIN CUSHION FLOWER (See Scabiosa)

## PINKS (See Dianthus)

## PORTULACA, Moss Rose (ra)

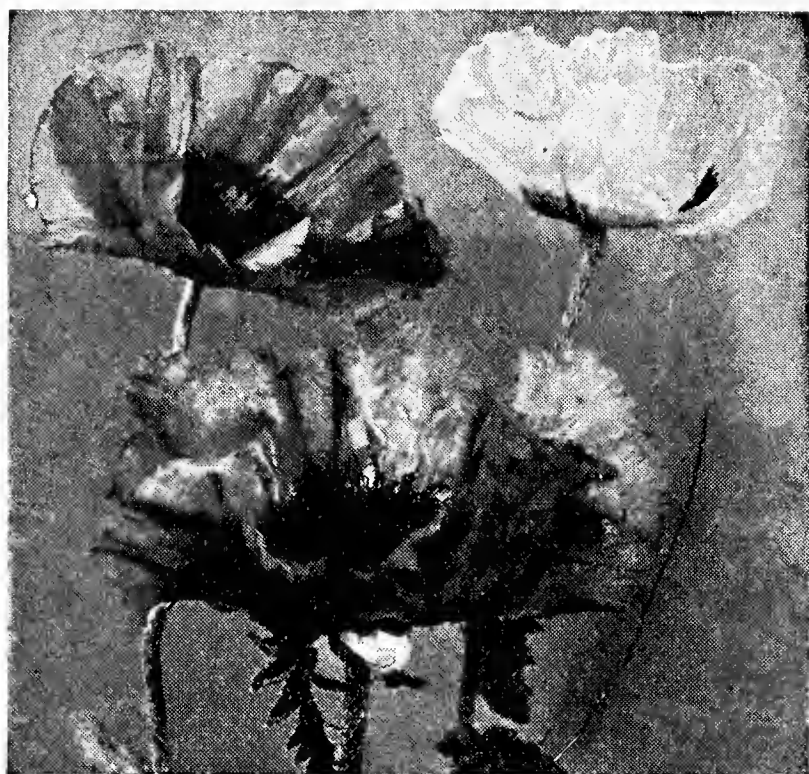
Brilliant hardy annual, of easy culture; excellent for massing in beds, edging or rock work, thriving best in a light, sandy soil and a sunny situation. Flowers of the brightest colors. Height, 6 to 10 inches.

**DOUBLE MIXED.** **Pkt. 10c.**

**SINGLE MIXED.** **Pkt. 10c.**

a, annual; b, biennial; c, climber; p, perennial; ra, rock plant annual; rp, rock plant perennial.





*Oriental Poppy*

## POPPY, Papaver

Annual Poppies should be sown as early as possible in the Spring where they are to remain as they do not transplant readily. Mix the seed with builders' sand, using about 25 times as much sand as seed, then broadcast seed on surface of the ground and firm well. Plants should be thinned out to 6 inches apart for best results. Seed may be sown in rows also and in succession up to the middle of May.

**SHIRLEY.** (a) Known as the Flanders Field Poppy of the World War. The plants with their deeply cut foliage, slender hairy stems, and silky petaled blossoms, often fluted, present an airy picture as they nod in the breeze. Height, 18 inches.

**SINGLE AMERICAN LEGION.** Dazzling scarlet with white cross at center. Best substitute for the wild Flanders Poppy. Pkt. 10c.

**SINGLE MIXED.** A superb blend of this beautiful type of Poppy ranging in color from pure white through tones of salmon, pink, and rose to brightest carmine-red. Pkt. 10c.

**DOUBLE PINK SHADES.** This charming sort with its double and semi-double flowers in several shades of pink is of great merit. Pkt. 10c.

**TALL SOMNIFERUM.** (a) These robust plants are of imposing stature, carrying an abundance of thick wide leaves, and bear large flowers on stout stems. Height, 3 feet.

**DOUBLE CARNATION FLOWERED MIXED.** Perfectly double, globular flowers with fringed petals in many brilliant colors. Pkt. 10c.

**NUDICAULE** (p) (Iceland Poppy). A hardy Poppy slightly resembling the Shirley. Somewhat different in habit and contains many shades of yellow and orange. Height, 18 inches.

**ICELAND POPPY IMPERIAL JEWELS.** See page 14.

**SANFORD'S MIXED GIANTS.** The finest strain of mixed colors in Iceland Poppies. The colors are well balanced. Large flowers grow on strong stems from 2 to 3 feet high. Pkt. 15c.

**ORIENTALE** (p) The royal members of the Poppy family—majestic in all their characteristics. Magnificent foliage, sturdy stems, huge cup-shaped flowers with crinkled petals; large decorative pods. Height, 2½ feet.

**MIXED HYBRIDS.** A splendid collection mostly red, with some white, rose, lavender, orange, and crimson. Pkt. 10c.

## POT MARIGOLD (See Calendula)

## PYRETHRUM, Painted Daisy (p)

This plant is cousin to the Chrysanthemum and Matri-caria and should play an important part in many a well planned garden. Height, 1 to 3 feet.

**ROSEUM.** The plants are erect growing, consisting of up-right slender stalks adorned with fern-like leaves and carrying fine terminal blossoms.

**SINGLE MIXED.** Radiating petals in many tones of rose and red about a golden center. Pkt. 10c.

## RED HOT POKER (See Tritoma)

## RICINUS, Castor Bean (a)

Magnificent, tall, large-leaved plants of tropical appearance, succeeding in a warm, sunny location. Beautiful for large foliage groups and background. Height, 10 to 12 ft. **MIXED VARIETIES.** Pkt. 10c.

## RUDBECKIA, Cone Flower (a)

**KELVEDON STAR.** Deep golden yellow with deep mahogany zones, and dark brownish central disc. Long stems. Pkt. 15c. **GOLDEN SUNSET.** Large golden yellow flowers, mahogany zone; very showy. Excellent for cutting. Height, 18 to 24 inches. Pkt. 15c.

## SAGE (See Salvia)

## SALPIGLOSSIS, Painted Tongue (a)

For delicate grace, richness of coloring, and velvety texture, the regal Salpiglossis has practically no equal. From a low base of leaves rise slender wiry stalks which bear one or more large Lily-like flowers in a magnificent range of colors. Height, 1 to 2½ feet.

**SUPERB MIXED.** Pkt. 10c.

## SALVIA, Flowering Sage

Brilliant flower spikes from late Summer until frost. The "Blues" are as attractive as the "Reds" and valuable as cut flowers.

**BONFIRE or CLARA BEDMAN.** (a) Scarlet red. Very erect and globular. Height, 2 feet. Pkt. 10c.

**SPLENDENS.** (a) (Scarlet Sage) Scarlet red. Loosely arranged flowers. Height, 2½ to 3 feet. Pkt. 10c.

**FARINACEA.** (p) Pale blue flowers on long stems. Height, 3 feet. Pkt. 15c.

## SCABIOSA, Pinchusion Flower (a)

These beautiful hardy annuals are in great demand. They grow about 2½ feet high and bloom from early in July without interruption until cut down by the frost. As a flower for cutting they are very popular. Seeds should be sown any time in the Spring after danger of frost is past.

**SCABIOSA IMPERIAL GIANTS, Blue Moon.** See inside back cover.

**NEW SCABIOSA GRANDIFLORA ROSETTE.** Beautiful shade of deep rose heavily suffused with salmon; a new color in Annual Scabiosa. Flowers are extra large and stems are long and stiff. Pkt. 10c.

**TALL DOUBLE MIXED.** Pkt. 10c.

## SCHIZANTHUS, Butterfly Flower (a)

One of our finest hardy annuals. Of easy culture in any good garden soil. Showy flowers of various colors, closely resembling some species of Orchids. Also useful as pot plants for late Winter and Spring; for this purpose sow in Autumn.

**BUTTERFLY MIXTURE.** Fine bright mixture, free flowering, compact pyramidal plants, 12 to 15 inches. Pkt. 10c.

## SHASTA DAISY

## Chrysanthemum Leucanthemum (p)

It is a hardy plant bearing large white, single blooms with handsome yellow centers. They are valuable for border decoration and especially pleasing in bouquets.

**ALASKA.** Pure white, extra large flowers. Excellent for cutting. Height, 2 feet. Pkt. 15c.

## SNAPDRAGON (See Antirrhinum)

## STATICE, Sea Lavender (p)

Splendid plants, either for the border or rockery, producing all Summer panicles of small flowers, which can be dried and used for Winter bouquets. Height, 1 to 1½ feet.

**LATIFOLIA.** Stout growing, with large, broad, dark-green radical leaves; slender branched panicles of small, filmy, blue flowers. Blooms in June. Pkt. 10c.

## STRAWFLOWER (See Helichrysum)

## SUNFLOWER (See Helianthus)

## SWEET SULTAN (See Centaurea)

# SWEET PEAS

## White and Cream Shades

**SEXTET QUEEN.** Pure white flowers of perfect form and of great substance. Normally produces five-flowered stems when grown under ordinary conditions. Black seeded. Award of Merit.

**AVALANCHE.** Immense glistening white flowers. The blooms are very frilled. White seeded.

**WHAT JOY.** Primrose, shading to cream. A charming tone and so far the nearest approach to a true yellow.

## Orange and Salmon Shades

**GEORGE SHAWYER.** A giant orange pink, the standard showing more orange than the wings. The flowers are perfectly formed and nicely placed. Award of Merit.

**SMILES.** Clear glistening salmon, best describes this exquisite variety. The large flowers are beautifully waved and fluted. Award of Merit.

## Cerise Shades

**MRS. A. SEARLES.** Salmon-cerise, merging into a soft oriental-red. A remarkable and distinct color. No collection is complete without this beautiful Sweet Pea.

**ARTISTE.** Clear geranium pink; a rare color. Flowers are large and quite frilled. An outstanding Sweet Pea.

## Red Shades

**RUBICUND.** Rich crimson scarlet. This is an exceptionally good Sweet Pea, lacking nothing in size, shape, stems and vigor.

**RED BOY.** The very best crimson. It is a first-class Sweet Pea for all purposes, especially for general garden culture. Award of Merit.

**WELCOME.** By far the best and most brilliant, dazzling, scarlet Sweet Pea. For exhibition or gardens it is supreme. Absolutely sunproof. Silver Medal, Scottish National Sweet Pea Society.

## Maroon and Purple Shades

**WARRIOR.** Rich chocolate maroon. A magnificent variety which has held its place and popularity for a number of years.

**OLYMPIA.** Deep rich purple of graceful form and immense size. Gold Medal, Scottish National Sweet Pea Trials.

## Special Mixture Spencer Sweet Peas

This is our special mixture and is a blend of all the most beautiful colors in Spencer Sweet Peas.

Pkt. 10c; oz. 25c; 1/4 lb. 60c.

All Colors: Pkt. 10c; oz. 30c.

## Culture of Sweet Peas

Sow as early in the Spring as the ground can be prepared in rich, deeply worked soil with good drainage. Cover the seeds about 2 inches deep with fine soil and supply support to the growing vines before they grow too large. Keep well watered during dry periods. One ounce of seed will plant a row about 15 feet long.

## STOCKS, Gilliflower (a)

These popular flowers are easily grown, are so highly fragrant, and of such great beauty that they deserve a place in every garden. The Early Giant Imperial class are half-hardy annuals. Beauty Stocks are biennials, but if sown in early Spring will bloom the same year. They are also valuable for Winter forcing.

**BEAUTY OF NICE.** It follows the Ten Weeks class in season of bloom. The plants are pyramidal in shape, branching above the base. Excellent for bedding and cutting, Height, 16 inches.

**Finest Mixed Colors. Pkt. 15c.**

**DWARF TEN WEEKS.** This early class forms dwarf compact plants that are excellent for edgings or low beds. They often do well in sections where plants of the later types cannot be grown. Height, 12 inches.

**Finest Mixed Colors. Pkt. 10c.**

**GIANT IMPERIAL.** Long stems and imposing spikes of large flowers make this the outstanding variety. It is about as early as Beauty of Nice and resembles it in habit, except that the plant is less spreading and taller. Height, 2 feet.

**Yellow (Buttercup). Pkt. 15c.**

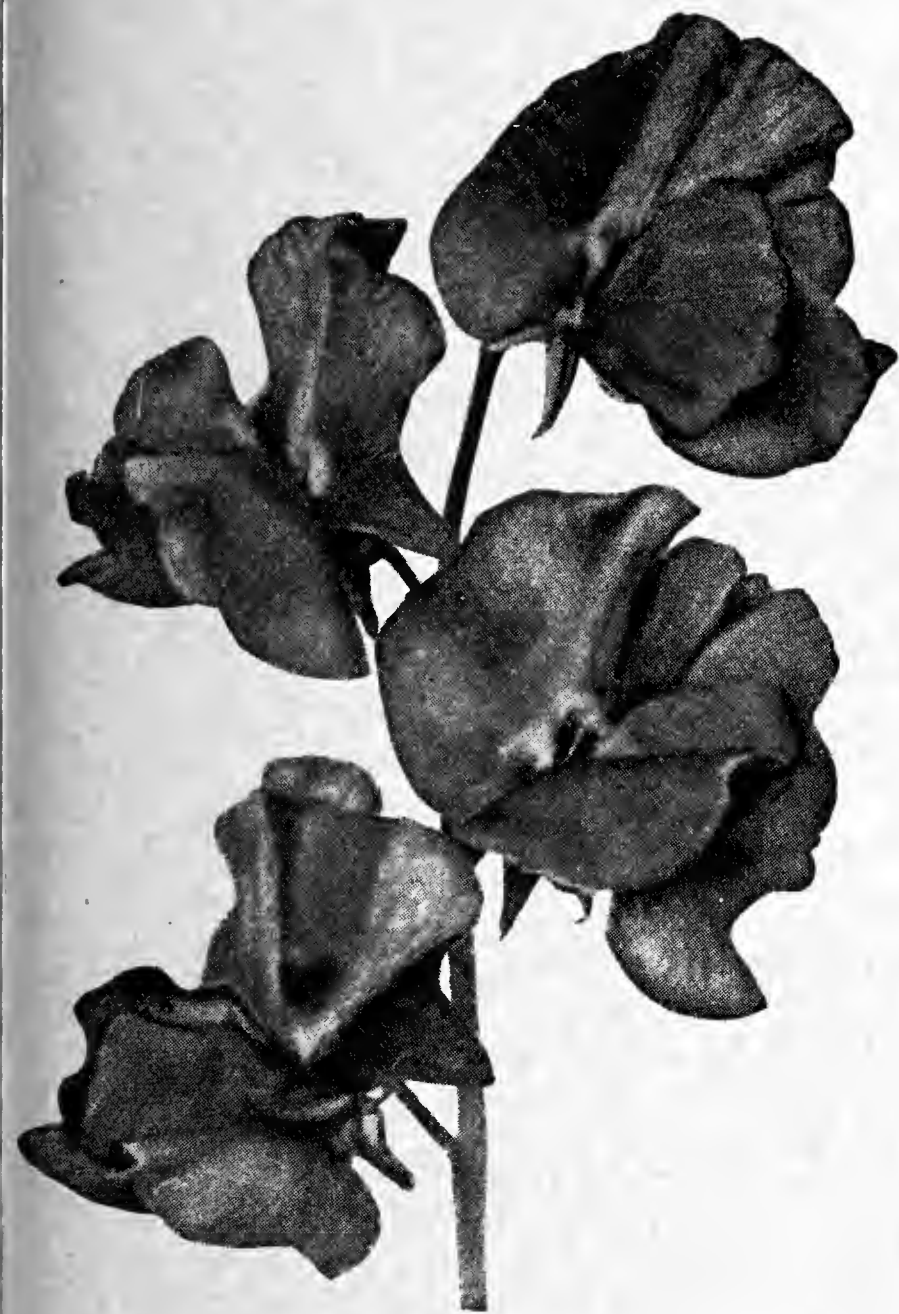
**Blood Red. Pkt. 15c.**

**Rose. Pkt. 15c.**

**Lavender. Pkt. 15c.**

**White. Pkt. 15c.**

**Finest Mixed Colors. Pkt. 15c.**



## GIANT SUMMER FLOWERING SPENCERS

### Pink and Rose Shades

All colors. Pkt. 10c, oz. 30c.

**ROSE PINK.** New type. See page 14.

**PINKIE.** Rose-pink with large and frilled flowers. This variety is seldom affected by weather conditions and first-class blooms can be cut all during its long blossoming period. Silver Medal.

**JACK HOBBS.** Cream-pink, flushed scarlet. One of the largest Sweet Peas ever introduced. Gold Medal.

**CISSIE.** A soft cream-pink. Extra large flowers which bloom in abundance and have long stems.

**LULLABY.** Charming shade of light rose pink. A strong grower. Award of Merit, National Sweet Pea Society 1934.

**MISS CALIFORNIA.** The color is a beautiful shade of rich pink, deeply flushed and shaded with salmon. Unsurpassed for either exhibition or general cutting purposes.

**YOUTH.** This Sweet Pea can be described as a white ground Picotee, but with slightly deeper color on the edges than its predecessor in this group. Strongly perfumed.

### Lavender and Blue Shades

**AMBITION.** Rich deep lavender, with a darker shade on the base of the standard and wings when young, lessening as the bloom ages. Gold Medal and Award of Merit.

**POWERSCOURT.** A clear pure lavender. Has been considered the best lavender for a number of years. It is still the most popular. The flowers are very pure in color.

**THE ADMIRAL.** Largest and best navy blue. The color is richer and deeper than Fortune. Award of Merit, Scottish National Sweet Pea Trials. Award of Merit, Royal Horticultural Society.

**CAPRI.** Clear silver blue; excellent. The best blue Sweet Pea; long stem; vigorous.



## **SWEET WILLIAM, *Dianthus Barbatus* (b)**

A well-known, attractive, free-flowering hardy biennial, producing a splendid effect in beds and borders with their rich and varied flowers. Height, 10 to 20 inches.

**NEWPORT PINK.** Watermelon pink or salmony rose color. Very beautiful. Pkt. 15c.

**SCARLET BEAUTY.** Rich, deep scarlet. A rare color in hardy plants and very effective. Pkt. 15c.

**Single Varieties, Mixed.** Pkt. 10c.

**Double Varieties, Mixed.** Pkt. 15c.

## **THUNBERGIA, Black-Eyed Susan (ac)**

Beautiful, rapid-growing annual climber, preferring a warm, sunny situation; used extensively for hanging baskets, vases, low fences, etc. Very pretty flowers in buff, white, orange, etc., with dark eyes. Height, 4 feet.

**ALATA.** Finest mixed. Pkt. 10c.

## **TRITOMA, Red Hot Poker (p)**

A perennial, not strictly hardy, but will live through the Winter with a protective covering of leaves or short manure; or the roots may be lifted and carried over Winter in sand in a cellar. Height, 4 to 6 feet.

**MIXED HYBRIDS.** Pkt. 15c.

## **VIRGINIAN STOCKS**

### **French Forget-me-nots (ra)**

Small red, rose and white flowers about  $\frac{3}{4}$  inch across. Fine for edgings. For continuous display until Fall, several successive sowings should be made about two weeks apart. Height, 6 to 8 inches.

**MIXED COLORS.** Pkt. 10c.

## **VERBENA (a)**

One of the most popular garden annuals for beds and massing and for a gorgeous display during the Summer months cannot be exceeded, commencing to flower in July and continuing until frost. Height, 6 to 8 inches.

**VERBENA HYBRIDA GRANDIFLORA CRIMSON GLOW.** Flowers are pure, self-colored, glowing crimson, wholly without even a small light eye. Individual florets of good size, although not as large as some other colors, such as pink and lavender. Pkt. 15c.

**FLORADALE BEAUTY.** Special Mention, All-America Selections 1937. A giant hybrid, the flowers varying from bright rose-pink to deep rose-red of exceptional brightness. Individual florets of perfect form, fully rounded, and average  $1\frac{1}{4}$  inches across; heads or trusses 4 to 5 inches across. Pkt. 25c.

**HYBRID GRANDIFLORA GIANT, MIXED SHADES.** Pkt. 15c.

## **WALLFLOWER, *Cheiranthus Cheiri***

These half-hardy perennial and annual Wallflowers are grown for early Spring bedding and for their delightful fragrance. Perennial sorts should be sown in Autumn and carried over in coldframe. Annual sorts may be sown outdoors in March and will flower the first year. Height, 2 to 3 feet.

**ALLIONI.** (ra) (Siberian Wallflower). This unusual little plant deserves a place in your rock garden or low border. Upright spikes bear numerous four-petaled flowers of dazzling rich orange. Flowers the first season from seed and when established will bloom all Summer. Height, 1 foot. Pkt. 10c.

**ANNUAL VARIETIES, Mixed Colors.** Pkt. 10c.

**PERENNIAL VARIETIES, Mixed Colors.** Pkt. 10c.

## **ZINNIA (a)**

One of the most showy and satisfactory of our hardy annuals for beds, mixed borders and for cutting purposes. Easy to grow in any good garden soil. They commence flowering early in the Summer and continue until frost.

**DOUBLE DAHLIA FLOWERED.**  $2\frac{1}{2}$  feet. Enormous double flowers are produced by robust branching plants. The flowers usually have slightly hollowed centers ringed with small tubular florets. The petals are quite loosely placed and tend to curl at the edges, giving the blossoms a crisp, fresh appearance.

**Crimson Monarch.** Deep crimson, large flowers. Pkt. 15c.

**Dream.** Deep rosy lavender. Pkt. 15c.

**Exquisite.** Light rose, deep rose center. Pkt. 15c.

**Golden Dawn.** Golden yellow. Pkt. 15c.

**Illumination.** Deep self rose. Pkt. 15c.

**Oriole.** Orange and gold bicolor. Pkt. 15c.

**Polar Bear.** White. Pkt. 15c.

**Scarlet Flame.** Bright scarlet. Pkt. 15c.

**Mixed.** Pkt. 15c.

**CALIFORNIA GIANTS.** This variety is taller than the Dahlia flowered type, 3 to 4 feet high, with long stems, which make the flowers fine for bouquets. The blooms are large and flat and very graceful for their size.

**Finest Mixed Shades.** Pkt. 10c.

**SUPER CROWN O' GOLD.** A vastly improved strain of the Crown O' Gold type, with large well formed flowers, in soft pastel shades, each petal overlaid at the base with deep golden yellow.

**Pastel Tints (New).** Pkt. 25c.

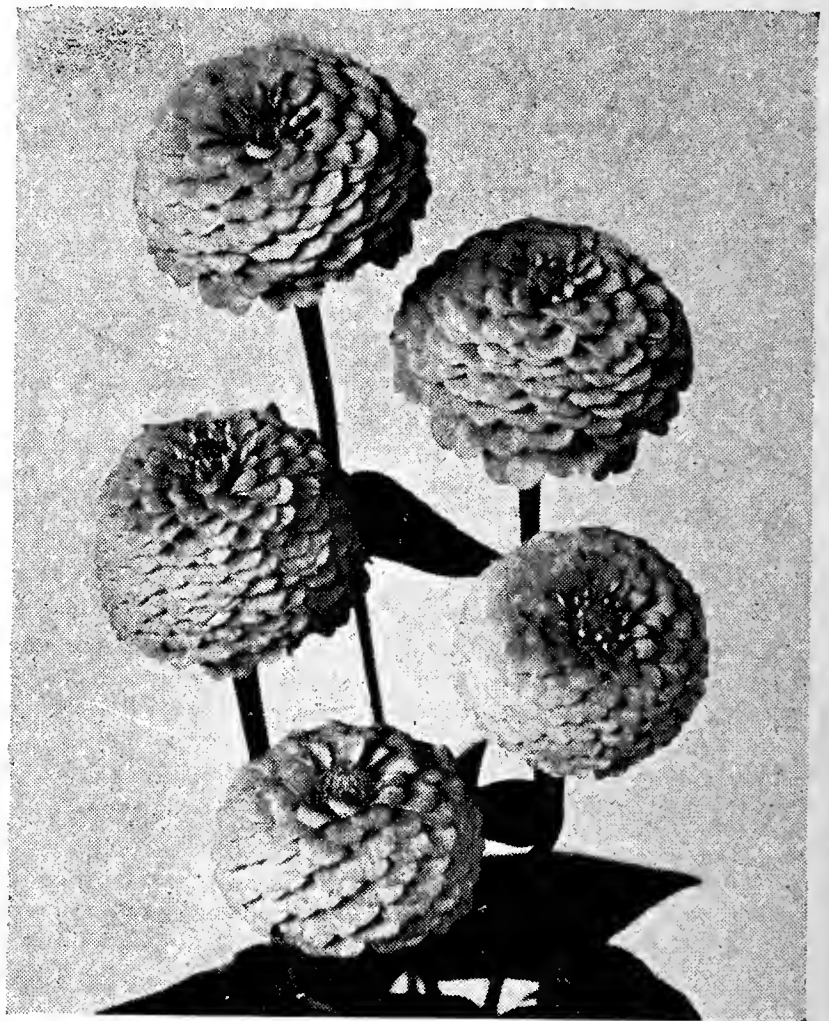
**FANTASY.** A new Zinnia type. Shaggy, medium-sized flowers on plants  $2\frac{1}{2}$  to 3 feet high. Free blooming. Excellent for cut flowers.

**ZINNIA FANTASY, Wildfire.** See page 14.

**Fantasy Mixed Shades.** Pkt. 10c.

**SCABIOUS FLOWERED.** Among the oldest and most attractive Zinnia forms, bearing a remarkable resemblance to the annual Scabiosa. The plants are extremely free flowering, 2 to  $2\frac{1}{2}$  feet high, giving a wealth of bloom throughout the Summer. The color range is particularly rich in shades of crimson, scarlet, orange, yellow and pink.

**Mixed Colors.** Pkt. 15c.



*Zinnia, Lilliput*

**DOUBLE LILLIPUT.** 12 inches. A charming dwarf which is excellent for low borders or edgings. The plants are of tidy habit and produce a bounteous supply of very double pom-pom flowers about  $1\frac{1}{2}$  inches across. The colors are bright.

**ZINNIA, Lilliput Pastel Mixture.** Consists of very lovely shades of apricot, peach, creamy yellow, shell pink, delicate salmon, light rose, and orchid. Pkt. 10c.

**TOM THUMB.** These tiny flowered Zinnias have a charm the larger ones can never attain, and make a brilliant display. They come in attractive color combinations, red tipped gold, salmon and gold, with a hundred intermediate shades. All Colors Mixed. Pkt. 10c.

# ... YOU CAN Grow Lawns and Flowers as Pictured in this Catalog

The high-quality seed we offer you has all of the fine characteristics you desire bred right into the strain. With ordinary cultural care you can duplicate the success of the master gardeners right in your garden.

But this must be borne in mind:

Plants require eleven different food elements from the soil for finest growth. The safe, sure way to make certain that your plants will be properly fed is to feed them with VIGORO. Vigoro is the complete plant food made by Swift & Company. It is of proper balance, clean, sanitary, odorless, and economical.



VIGORO PRICES	
1 lb. ....	\$ .10
5 lbs. ....	.45
10 lbs. ....	.70
25 lbs. ....	1.40
50 lbs. ....	2.30
100 lbs. ....	3.50



# VIGORO

*Complete plant food*

**VIGORO IS IDEAL FOR LAWNS, FLOWERS, SHRUBS, TREES, VEGETABLES!**

## FERTILIZERS

All sold at current market prices. Ask for quotations.

**AMMONIUM SULPHATE** is a valuable fertilizer for all plants in which a large leaf development or rapid growth is desired. It will stimulate growth almost immediately. It is also used for top-dressing lawn, producing a thick velvet growth and discouraging the weeds. It is a highly concentrated nitrogenous product, containing 25¼ per cent ammonia, 20¾ per cent nitrogen. One pound to 200 square feet is sufficient application for lawns.

**BONE MEAL.** Extra fine; is a fertilizer recommended for lawns, rose bushes, grape vines, especially where a moderately slow fertilizer is needed for the deep-rooted shrubbery and where a perfectly safe fertilizer is required. It contains a phosphoric acid and some nitrogen.

**GRANULATED PEAT MOSS.** For greenhouse, garden and home. Our Peat Moss is of the finest quality you can buy anywhere at any price. Its use contributes to the humus content of the soil, lightening heavy clay and binding sandy soils. It insulates soil against freezing and thawing in winter and conserves moisture in summer. Clean, odorless and economical to use.

**SHEEP GUANO.** An efficient fertilizer to use on lawns, in the garden, the perennial border, shrubbery beds, small fruit garden, flower beds, etc., It is safe and dependable. A natural plant food and not a chemical stimulant. Every amateur gardener can get results with sheep guano.

**NITRATE OF SODA.** A fertilizer for all crops; quick in action and hastens the maturity of crops fully two weeks. It

should not be applied until the plants are above the ground. Do not allow solution to touch foliage. Dissolve 1 oz. to 2 gals. or 1 lb. to 50 gallons.

**SUPERPHOSPHATE** (Acid or Rock Phosphate) is a water soluble combination of phosphoric acid and lime which is formed by the action of sulphuric acid on raw phosphate rock, one of the elements required in a balanced fertilizer. It aids in plant nutrition and assists the plant to assimilate other ingredients. Superphosphate is an efficient fertilizer element for lettuce, truck crops, cereal crops, and alfalfa.

**TANKAGE.** Containing by-products from slaughter houses and contains blood, meat, bone that has been cooked, dried and ground. The analysis varies much, running from 5 to 9 ammonia and 5 to 15 phosphoric acid. It contains no potash and for best results potash should be mixed with tankage. A quick acting organic.

**HYDRATED LIME.** The constant watering of lawns tends to sour the soil and eventually the lawn becomes foul with sorrel, Creeping Charlie, and other weeds which thrive in an acid soil. This condition may be improved by applying Hydrated Lime.

**MURIATE OF POTASH.** This fertilizer is especially valuable for fruit trees and berries.

**SULPHATE OF POTASH.** A desirable form of Potash, especially valuable for potatoes and any root crops, such as beets, turnips, etc., also cabbage, etc.



# FIELD SEEDS

Write for Our  
Competitive Prices

## ALFALFA

Sow 12 to 15 lbs per acre.

**GRIMM ALFALFA.** State Sealed and Certified Seed. Grimm Alfalfa is a very hardy and consistent producer, and is recommended for all sections where alfalfa is considered to have a place. Highest grade seed.

**LADAK ALFALFA.** A variety ideally adapted to dry soils which cannot successfully grow the more common varieties. Will produce one heavy crop, and in case the moisture is not sufficient to continue its growth, will survive through the season, to come again after winter rains have revived it. Strongly resistant to freezing. Also gives good results under irrigation in the Northwest.

**COMMON or CHILEAN ALFALFA.** Universally grown popular long-rooted variety. Best adapted to deep soils.

## BARLEY

Sow 120 to 150 lbs per acre.

**SUCCESS BEARDLESS BARLEY.** Spring. Straw about height of common barley. Stands up better than other varieties. Contains no beard.

**WHITE HULLESS OR BALD BARLEY** (Beardless). An early spring variety. When threshed is hullless like wheat.

**HANNCHEN BARLEY.** Heavy yielding, spring variety, medium early, white, two row, bearded type.

**TREBI BARLEY.** Spring. This is a six-rowed, bearded, hulled barley adapted to irrigated conditions. Though it is rough awned the awns thresh free from the grain, thus eliminating danger in feeding.

## BUCKWHEAT

Sow 50 to 60 lbs. per acre.

**JAPANESE.** This is the largest growing buckwheat. The plant makes a more vigorous and larger growth than the common kind and yields more. Adapted throughout the Northwest.

**SILVER HULL.** The kernels are gray and are much smaller than the Japanese variety. They are very plump and heavy and make excellent flour. Also adapted throughout the Northwest.

## CLOVER

**MAMMOTH RED CLOVER.** Also called "Pea Vine" Clover. This variety grows larger and coarser than the medium and is often used for plowing under to enrich the soil. American grown seed. 6 to 10 lbs per acre.

**HUBAM ANNUAL SWEET CLOVER.** Hubam Clover has come rapidly to the front as an emergency pasture and hay crop. Hubam is an annual legume. It is best suited for the corn belt section, grows from 3 to 7 feet high.

**LADINO WHITE CLOVER.** Is a very large form of clover, usually making a growth of 8 to 12 inches. A perennial. The stems lie flat on the ground and commonly root at the joints. Can be grown on rather shallow land where well supplied with humus and moisture. Medium heavy types of soil. Sow 4 to 6 lbs. per acre.

**WHITE DUTCH CLOVER** (*Trifolium repens*). A very hardy creeping clover, which adapts itself to a great variety of soils and climates. Superior for pasture either for sheep or cattle. As a bee pasture it is unexcelled. Sow 6 to 8 lbs. per acre.

**YELLOW SWEET CLOVER, BIENNIAL** (*Melilotus officinalis*). In great demand on account of its earliness, being about two weeks earlier than the white. Produces high quality hay. Sow 12 to 15 lbs. per acre.

**WHITE SWEET OR BOKHARA CLOVER, BIENNIAL** (*Melilotus Alba*). Excellent for pasture, hay and a soil improver. More drouth-resistant than alfalfa and will generally produce a large crop of seed and hay the second year. Thrives on light alkali soil. Sow 12 to 15 lbs. per acre.

**RED CLOVER** (*Trifolium pratense*). Is excellent for pasture and hay purposes. Will thrive in slightly wetter and more acid land than alfalfa. Is used in the higher altitudes and colder sections. Sow 6 to 10 lbs. per acre.

**ALSIKE** (*Trifolium hybridum*). Very hardy, adapted for sowing on cold, wet land. It yields a large amount of hay or pasture and is a good bee plant. Sow 8 to 10 lbs. per acre.

**STRAWBERRY CLOVER.** Undoubtedly one of the most satisfactory of recently developed legumes. Resembles White Dutch Clover but spreads faster and lives longer. Has vigorous surface creepers and develops a very dense sod. Primarily valuable for pasturing either cattle or sheep.

Does very well in many soils and exceptionally satisfactory for coastal lands. However, it is of little value in extreme dry condition. Free from insect and disease attacks. When seeding, 3 pounds per acre is ample. If in a mixture, 1 1/2 pounds is recommended.

## FIELD CORN

See Vegetable Seed, page 6.

## FLAX

**FLAX** may be grown with good success in the West. It matures quickly and may be planted as late as the middle of June and mature seed. Yields 10 to 20 bushels per acre. May be used with success as a nurse crop for clovers and grasses where there is plentiful summer moisture. Sow 42 lbs. per acre.

## GRASSES

**BROMUS INERMIS** (Awnless Brome Grass). The best grass we have for the drier regions of the Northwest. Grows luxuriantly, is freely eaten dry or green by cattle. Sow 25 to 30 lbs. per acre. Spring or fall.

**MEADOW FESCUE** (*Festuca pratensis*). This is a very valuable species for permanent grass lands and is relished by livestock both as hay and pasture. Sow 15 to 20 lbs. per acre on well prepared soil.

**MESQUITE** (*Holcus lanatus*). Used on burned over, virgin soils. No cultivation is necessary. Sow 15 lbs. per acre.

**OAT GRASS, TALL MEADOW.** The earliest grass to start in the spring and holds well into the fall. Withstands rather dry, warm and cold conditions much better than many other grasses. A long-lived, deep rooted perennial. Grows equally on bottom or upland. Sow 20 to 30 lbs. per acre.

**ORCHARD GRASS OR COCKSFOOT** (*Dactylis glomerata*). Valuable if planted alone or mixed with other grasses. Very often mixed with White Clover, Red Clover and Rye Grass. Sow 20 to 28 lbs. per acre.

**ENGLISH RYE GRASS** (*Lolium perenne*). A strong growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. Sow 25 to 30 lbs. per acre.

**ITALIAN RYE GRASS** (*Lolium multiflorum*). A quick growing grass, attaining a height of 2 1/2 to 4 ft., desirable for temporary meadows or pastures. Thrives best on soils that are slightly moist, and will even stand considerable over-flow. Sow 25 lbs. per acre.

**OREGON RYE GRASS.** Similar to Italian. The finest rye grass grown; superior to imported. Sow 25 lbs. per acre.

**TIMOTHY** (*Phleum pratense*). This is a very valuable grass for hay. Thrives best on moist, loamy soil. Sow early in the spring or fall. Sow 8 to 10 lbs. per acre.

**PASTURE MIXTURE FOR BURNED-OVER LAND.** A blend of grasses for sowing on burns and logged-off lands. Splendid value and very economical for such purposes. Sow 10 lbs. per acre.

**SUDAN GRASS.** An excellent annual drouth resisting forage plant. All stock relish it. Seed in spring after soil is warm. Sow 20 to 30 lbs. per acre.

**RED TOP** (*Agrostis alba*). A valuable grass for most soils. It is a good, permanent grass. It should be grazed close. Grows successfully on "alkali" bottom lands, where other grasses failed. Sow 10 to 15 lbs. per acre.

**KENTUCKY BLUE GRASS.** This is an excellent grass for pasture for all kinds of stock. It is very hardy. The roots form a tough sod. Blue Grass requires two years to get well started and for that reason is often sown in mixture with other grasses. Sow 20 to 25 lbs. per acre.

**CRESTED WHEAT GRASS.** This is the valuable plant for our Western country and thrives well in semi-arid sections. It is one of the best and surest hay grasses for these sections. It withstands drouth and the cold winters. As a mixture it does fine with Brome grass. Sow 10 to 15 lbs. per acre.

**SUPERIOR REED CANARY GRASS.** A hardy perennial grass which succeeds in spite of long summer dry periods. It differs from the lowland type or regular Reed Canary Grass in that the growth is more upright, leaves more numerous and of a lighter green color. Its stems are upright and comparatively stiff but not harsh. Primarily a pasture grass with a long life, long grazing season and produces a large quantity of very succulent, palatable forage. Sow 5 to 12 pounds per acre broadcast.

## MILLETS

**JAPANESE BARNYARD MILLET.** This millet is exceedingly palatable and is the best of summer green feeds for the cool coast sections. Sow 20 to 30 lbs. per acre.

**GERMAN OR GOLDEN** (*Chactochloa italica*). Will grow on any good land and yields heavily when irrigated. Yields from 30 to 40 bushels of seed per acre, and is excellent food for stock and poultry. Also a good green fodder and hay plant.

**HOG OR PUOSO.** The seed is large. Feeding value almost equal to corn. It is a valuable feed for hogs and cattle as well as for birds and poultry.

## OATS

Sow 60 to 80 lbs. per acre.

**VICTORY** is similar to Swedish Select in season. Grain of medium size, short, plump, white, thin hull, nearly beardless. A heavy yielder. The straw is very stiff and firm.

**SWEDISH SELECT.** Kernel is white, large and plump, hull thin, and straw is stiff and strong. Does not lodge. A remarkable root development makes the Swedish Select oat a good drought-resister, and especially suited to high land. It is the earliest of the heavy yielding sorts.

**GRAY WINTER OATS.** Usually hardy. Seeded in winter, fall or early winter. May be sown in the spring for hay in coast sections.

## FIELD PEAS

**AUSTRIAN WINTER PEAS.** Here is the ideal forage legume for hay, ensilage or for pasture. The vines and pods are almost as large and heavy as garden peas. The vines are relished by all kinds of stock. Plant in the fall for best results. Will not winter-kill. Does well under irrigation and in relatively humid sections. Sow 30 to 35 lbs. per acre.

**CANADIAN.** This legume has the distinct advantage of being suited to late planting. Canadian Field Peas produce excellent forage. May be used for summer green manure crop. Requires considerable moisture. Sow 120 to 150 lbs. per acre.

## RAPE

**DWARF ESSEX.** This crop is very highly recommended for pasturage for sheep, cattle, and hogs. It also makes splendid green feed for poultry. Plant in early spring. Requires fertile, moist soil. Sow 10 lbs. per acre.

## RYE

Sow 85 to 115 lbs. per acre.

**SPRING RYE** makes a successful growth in rather poor soils where other grains would fail. It is useful as a cleaning crop for the purpose of eradicating wild oats. Makes early pasture and may be cut and cured for hay.

**WINTER OR FALL RYE** serves a very useful purpose for pasture and hay. May be sown in the spring and summer as well as in the fall. When Winter Rye is sown after frost it goes into the following season before maturing.

**ROSEN OR PETKUSER RYE.** A Winter Rye of recent introduction and is becoming very popular among growers of Winter Rye. It is said to yield more grain, stools more, and is hardier than the older types of Winter Rye.

## VETCH

Sow 40 to 60 lbs. per acre.

**COMMON VETCH.** Resembles peas and valuable for forage and green manure. As a hay crop it is generally sown with oats or wheat to afford support for the vines. Usually sown in the fall. Best adapted to sections west of Cascade Mountains.

**HAIRY VETCH** (*Vicia Villosa*). Thrives on sandy soils that may be somewhat low in fertility, and makes a better growth during the cold season than the other varieties. Has very wide adaptability.

**HUNGARIAN.** Finer stemmed and leafier than most forage vetches. Suitable to various types of soils. Resistant to aphid attacks.

## WHEAT

Sow 75 to 90 lbs. per acre.

**MARQUIS SPRING WHEAT** is the standard, hard, red, spring wheat for irrigated sections of the West. It is early maturing and high yielding. Is beardless, short, stiff strawed.

**TURKEY RED WINTER WHEAT.** A standard red bearded wheat with a strong straw. It is early ripening. Kernels are large, red and hard. It is in good demand by millers.

**THOMPSON CLUB or WHITE RUSSIAN WHEAT.** The most widely used Spring wheat planted in the irrigated districts of Eastern Washington and Oregon. It is a beardless, soft white variety which outyields all other common varieties.

## BUILD UP YOUR SOIL

### Inoculate Your Legumes with NITRAGIN

Make the most of your seed, soil and labor. Don't let legumes rob your soil—be sure they are soil builders.

Remember legumes NOT Inoculated are "SOIL ROBBERS" but legumes WELL Inoculated are "SOIL BUILDERS." Play safe!

INOCULATE ALL LEGUME SEEDS WITH

## NITRAGIN

OVER FORTY YEARS OF SERVICE

When ordering, Always state name of seed.

### ALFALFA, all Clovers

Size	Retail
1/2 bu. each...	\$ .30
1 bu. each...	.50
2 1/2 bu. each...	1.00

### PEAS (All Varieties)

### VETCHES (All Varieties)

1/2 bu. each...	\$ .25
1 bu. each...	.40
1 2/3 bu. each...	.60
5 bu. each...	1.70
12 1/2 bu. each...	4.00

### BEANS

### String, Wax, Kidney

1/2 bu. each...	\$ .25
1 bu. each...	.40
5 bu. each...	1.70

### LESPEDEZA

Size	Retail
1 bu. each....	\$ .30
2 bu. each....	.50
5 bu. each....	1.00

### SOYBEANS, LIMA BEANS, COW PEAS, PEANUTS

1 bu. each....	\$ .30
2 bu. each....	.50
5 bu. each....	1.00
10 bu. each....	1.40
25 bu. each....	2.90

### GARDEN SIZE

### Garden Peas & Beans

### Sweet Peas & Lupines

Enough for 6 lbs. seed

Retail Price 10c each

## SOYBEANS

**SOYBEANS** are annual legumes widely adapted to various soils. Soybeans hay is one of the best roughages and when mixed with corn they make splendid ensilage. When harvested for seed, they should not be cut until pods are fully matured and the beans hard. Sow 25 lbs. per acre.

## SUNFLOWER

**MAMMOTH RUSSIAN.** Heavy producer of forage and seed. Of value for silage and seed production. Plant 10 pounds per acre.

## Germâco

# Hotkaps

**HOTKAPS** are waxed paper cones, easily set out in quantity over seed or growing plants. They guard against rain, frost, cold, wind, hail, birds and insects, and maintain perfect mulch. Growth is forced and yield is increased 10 to 25 per cent. Millions are sold every year. Crops mature two to three weeks earlier, and bring premium prices.

Prices: 1000 for \$10.75; 250 package with Setter and Tamper, \$4.00; 100 package with Setter and Tamper, \$2.75; HOTKAP Home Garden Package, 25 Hotkaps and Fibreboard Setter, 50c; Steel Setter, \$1.50; Garden Setter, 50c; Tamper, 25c. Postage extra.



## HOTKAPS—An Individual Hothouse for Every Plant!



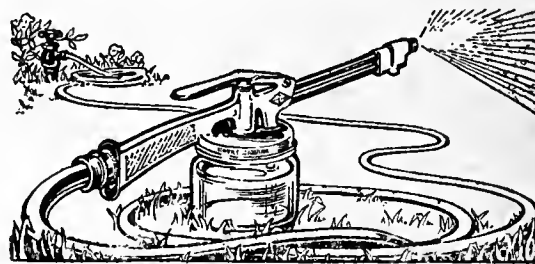
## A CONDENSED LIST OF PLANTS — Postage Extra

	Each	12	50	100	1000
CABBAGE Early and Late Varieties, transplanted. . . . .	. . .	.20	.60	.90	7.00
CABBAGE, Early and Late Varieties, Field grown. . . . .	. . .	.15	.40	.60	3.50
CAULIFLOWER, Early, Transplanted . . . . .	. . .	.20	.70	1.00	7.00
CAULIFLOWER, Early, Field Grown. . . . .	. . .	.15	.40	.75	5.00
CELERY, White and Golden Self Blanching, Transplanted . . . . .	. . .	.20	.65	.90	7.00
TOMATOES, All Varieties, Transplanted . . . . .	. . .	.25	.80	1.25	8.00
EGG PLANT, Transplanted . . . . .	. . .	.25	.80	1.25	8.00
PEPPERS, All Varieties, Transplanted . . . . .	. . .	.25	.80	1.25	8.00
LETTUCE, New York, Transplanted . . . . .	. . .	.20	.50	.75	6.00
SWEET POTATOES . . . . .	. . .	.25	.65	1.00	7.00
ASPARAGUS ROOTS, 2 years . . . . .	. . .	.40	.85	1.50	10.00
RHUBARB ROOTS, 2 years . . . . .	.20	1.50	. . .	. . .	. . .
HORSERADISH . . . . .	. . .	.30	1.00	1.50	8.00
MINT . . . . .	.10	.75	. . .	. . .	. . .
SAGE, 1 year plants . . . . .	.15	1.25	. . .	. . .	. . .
STRAWBERRIES, Everbearing Mastodon . . . . .	. . .	.40	1.25	2.00	12.00
STRAWBERRIES, Everbearing Progressive . . . . .	. . .	.40	1.00	1.75	10.00
STRAWBERRIES, Standard, Glenn Mary, Marshall, Sen. Dunlap, New Oregon, Howard, Premier. . . . .	. . .	. . .	.75	1.25	7.00
	Each	10	50	100	1000
RASPBERRIES, Red, Latham, Cuthbert, Newburgh. . . . .	.10	.75	2.25	4.00	. . .
RASPBERRIES, Everbearing, Indian Summer . . . . .	.20	1.50	4.00	8.00	. . .
RASPBERRIES, Black, Gregg or Cumberland. . . . .	.20	1.50	4.00	8.00	. . .
LOGANBERRY . . . . .	.20	1.50	5.50	10.00	. . .
BLACKBERRY, Mersereau, Snyder . . . . .	.20	1.50	5.50	10.00	. . .
DEWBERRY, Lucretia . . . . .	.20	1.50	5.50	10.00	. . .
YOUNGBERRY . . . . .	.20	1.50	. . .	. . .	. . .
GRAPES, Concord, Moore's Early, Worden, Agawam, Niagara . . . . .	.25	2.00	. . .	. . .	. . .

**NOTICE—All Prices F. O. B. Lewiston, or Spokane. Add Postage at Zone Rate, or We Will Ship by Express.**

### ANNUAL FLOWER PLANTS— Postage Extras

	Doz.
ASTERS, Crego, separate colors . . . . .	.25
ASTERS, Crego, Mixed . . . . .	.25
ASTERS, Calif. Giants, Mixed . . . . .	.25
ALYSSUM, Little Gem . . . . .	.25
CALLIOPSUS, Mixed . . . . .	.25
CANDYTUFT, Mixed. . . . .	.25
CALENDULA . . . . .	.25
CARNATION, Red, Pink, White . . . . .	.30
COSMOS, Mixed . . . . .	.25
LARKSPUR, Annual . . . . .	.25
KOCHIA . . . . .	.25
MARIGOLD, African or French . . . . .	.25
PANSIES, Oregon Giants and New Swiss Giants . . . . .	.50
PHLOX, Drummond, Mixed . . . . .	.30
PETUNIA, Mixed . . . . .	.30
PETUNIA, Ruffled Monster, Elks Pride . . . . .	.50
SALPIGLOSSIS, Mixed . . . . .	.30
SALVIA . . . . .	.35
SNAPDRAGON, Any Color . . . . .	.25
STOCKS, Ten weeks, Mixed . . . . .	.25
VERBENAS, Mixed . . . . .	.30
ZINNIAS, Mixed . . . . .	.25

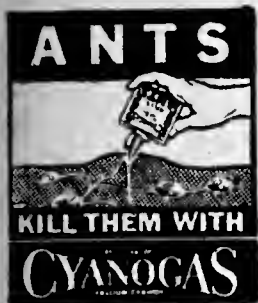


**PEST  
CONTROL  
Made  
Easy**

#### THE HAYES JR. SPRAY GUN

takes all labor out of spraying and insures 100% coverage. Insecticide is thoroughly mixed before leaving nozzle; adjustable nozzle sprays up, down or sideways; sends fine stream 20 feet high to spray trees; uses any insecticide soluble in water; put enough insecticide in the glass jar to make 3 gallons according to manufacturer's formula, fill with water, thoroughly mix, attach to garden hose and spray; no moving parts; non-corroding metals used.

**\$4.95**  
EACH



## CYAN-O-GAS

Used to control ground squirrels. Sure to get them. Also used effectively on ants, rats and insects. Comes in granular form or dust to use in dust gun.

Prices F. O. B. Lewiston or Spokane. Cannot be mailed.

### SIZE CONTAINERS

¼-pound size .....	\$.30
½-pound size .....	.45
1-pound size .....	.80
5-pound size .....	3.10
25-pound size .....	6.40
100-pound size .....	26.00

## SEMESAN BEL

For Seed Potatoes. Potato diseases cause a loss equivalent to the yield of one acre in every five or six acres planted. One pound treats 16 to 22 bushels of seed.

4 oz. ....	\$.50
1 lb. ....	1.50
5 lbs. ....	6.50
25 lbs. ....	30.00



## SEMESAN

For vegetable and flower seeds. Kill the harmful disease organisms on the seed with Semesan before planting. 1/3 oz. 10c; 2 oz. 35c; 1b. \$2.25; 5 lb. \$10.00; 25 lb. \$45.50.

## NEW IMPROVED CERESAN

Generally controls stinking smut or bunt of wheat, barley covered smut and stripe, and loose and covered smuts of oats. One treatment for all three grains. Only one-half ounce of New Improved Ceresan is needed to treat a bushel of seed. New Improved Ceresan is quickly and easily applied as a dust by means of a rotary seedtreater or by the shovel method. After treating, the seed should be stored in a pile or sacks for 24 hours before planting. Price:

1 lb. 75c; postpaid 85c; 5 lb. \$3.25; postpaid \$3.50

## COPPER CARBONATE for Treating Wheat

Eighteen per cent copper carbonate is used in dry areas where less danger of smutting is encountered.

5 lb. 75c; 30-lb. case \$4.50.

## 50 PER CENT COPPER CARBONATE

Used generally by farmers of this section. Universally accepted as best wheat treatment for smut. Sherwin-Williams Brand.

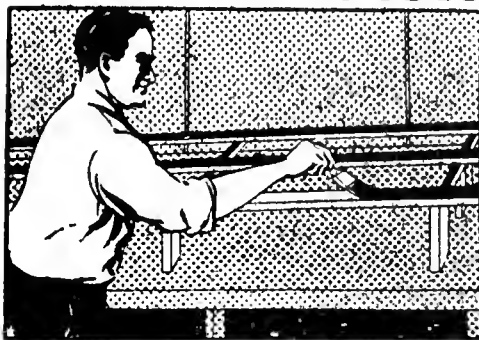
5 lb. \$1.15; 10 lb. \$2.25; 40-lb. case, \$8.80.

Price F. O. B. Lewiston or Spokane.

## GRAFTEX—Scientific Grafting Compound

Protects plants and goes 50% further than old style grafting wax. Price ½-lb. can 50c. Add postage.

## 'PAINT' THE ROOSTS



## WITH 'BLACK LEAF 40'

readily with other sprays. 40 per cent nicotine. 1 oz. makes 6 gallons of spray.....\$ .35

5 oz. \$1.00; 1 lb. \$2.25; 2 lb. \$3.25.

**BLACK LEAF 40** — Destroys aphids, thrips, leaf hoppers on all trees, bush and vine plants, vegetables, field crops, flowers, shrubs; also apple red bug, pear psylla and similar soft-shelled suckling insects — without injury to foliage. It is also a control for poultry lice by painting the roosts with it. Combines

# EVER GREEN

EVER GREEN GARDEN SPRAY is highly concentrated, therefore economical to use. The one-ounce package makes up to six gallons of powerful spray.

1-oz. package .....	\$.35
6-oz. can .....	1.00
16-oz. can .....	2.00
1-gallon .....	12.00

## ARNOLD GARDEN HOSE SPRAYER



Complete Sprayer consists of non-leak shut-off, transparent cartridge chamber with metal threaded ends, and 12-inch angle spraying nozzle. All metal parts chromium plated. Price \$3.50.

Same, but all brass. Price \$3.00.

## ARNOLD SOLID SOLUBLE INSECTICIDE CARTRIDGES

**COLLOIDAL SULPHUR**—for control of mildew, rust, black spot and scale. Repels red spiders, ants and other parasites.

**PYRETHRUM ROTENONE** — for control of aphids, thrip, ants, cutworms and other chewing and sucking insects.

**NICOTINE**—for control of aphids, thrip, red spider, mites, mealy bugs, lice and soft scale.

**ARSENATE OF LEAD**—for the control of brown tail moth, gypsy moth, leaf beetle, green apple bug, apple scab, asparagus beetle.

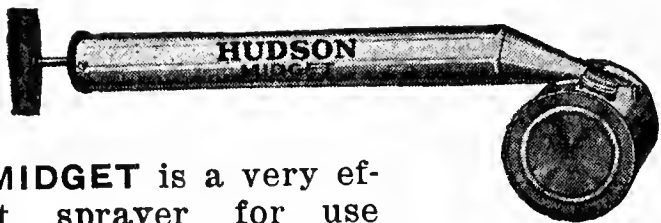
**BORDEAUX MIXTURE**—for the control of leaf spot, blight.

**FERTILIZER CARTRIDGES** — scientifically balanced chemical plant food to keep plants well nourished and more resistant to disease. Used with the Sub-Surface Feeder and Irrigator.

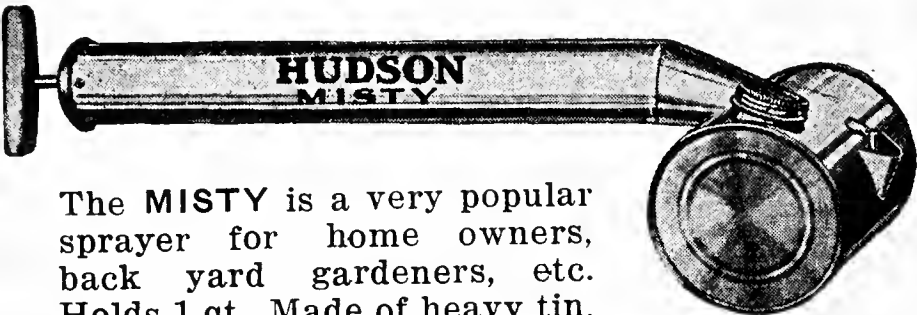
ALL ABOVE CARTRIDGES 25c EACH



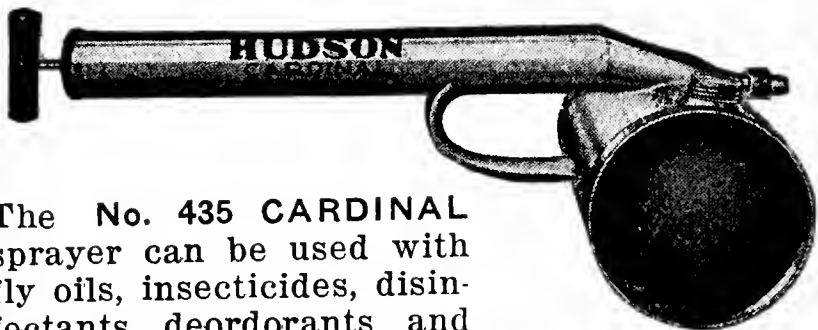
# HUDSON SPRAYERS



The **MIDGET** is a very efficient sprayer for use around the home and small garden. Holds ¾ pint. Made of heavy tin. Has 10-in. pump, set into tank. Handles all insecticides and fungicides. No. 202 Midget, wt. 1 lb. Each.....35c  
Postage 12c extra.

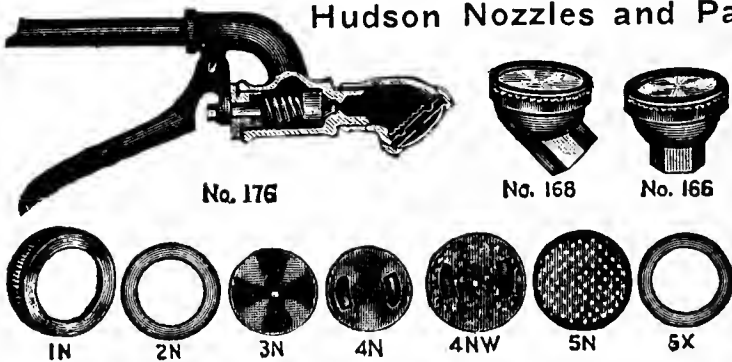


The **MISTY** is a very popular sprayer for home owners, back yard gardeners, etc. Holds 1 qt. Made of heavy tin. Handles all spray liquids. Tank has large filler opening. Pump is set into tank to insure rigidity. No. 452 Misty, wt. 2 lbs. Each.....50c  
Postage 15c extra.



The **No. 435 CARDINAL** sprayer can be used with fly oils, insecticides, disinfectants, deodorants and all similar preparations. Has adjustable nozzle. Heavy galvanized steel tank, double seamed, thoroughly soldered, air tested and inspected. Capacity 3 qt. Priced Each .....\$1.50

## Hudson Nozzles and Parts



No.	ARTICLE	Price
176	Perfection Shut-off, each .....	\$1.50
168	Fog Nozzle, each .....	.60
166	Fog Nozzle, each .....	.60
1N	Fog Nozzle Cap, each .....	.20
2N	Fog Nozzle Washer, dozen .....	.30
3NC	Fog Nozzle Outside Disc, Reg., Doz.....	.60
3NF	Fog Nozzle Outside Disc, Fine, Doz.....	.60
4N	Fog Nozzle Inside Disc, Reg., Doz.....	.60
4NW	Fog Nozzle Inside Disc, for White-wash, Dozen .....	.60
5N	Fog Nozzle Screen, Dozen .....	.60
5X	Leather Gasket for Packing Nut, Doz...	.30
3X	Shut-off Valve Hose Nipple, each.....	.10
7XL	Shut-off Valve Pin with Leather Tip, with slot milled for handle instead of drilled, each .....	.20
2X	Shut-off Valve Handle, previous to 1927, each .....	.20
2XD	Shut-off Valve Handle, drilled 1927 and later, each .....	.20
6X	Shut-off Valve Spring, each .....	.10

The **CLIMAX** sprayer offers all the essentials of a high pressure compressed air sprayer at a very reasonable price. It is equipped with a funnel top for easy filling. It is adapted for all classes of work, handling white-wash, cold water paints, insecticides, etc., and is very efficient. Has a capacity of about 3½ gals.



Climax 3½ gal. Galv.....\$5.95  
Leader 3½ gal. Galv.....\$4.75  
Postage 20c extra.

The **No. 432** is the most popular continuous sprayer. Will handle all oil solutions, like fly sprays, moth preventives, etc. Has a combination nozzle for horizontal and up-shoot spraying.

Each 90c  
Postage 12c extra.

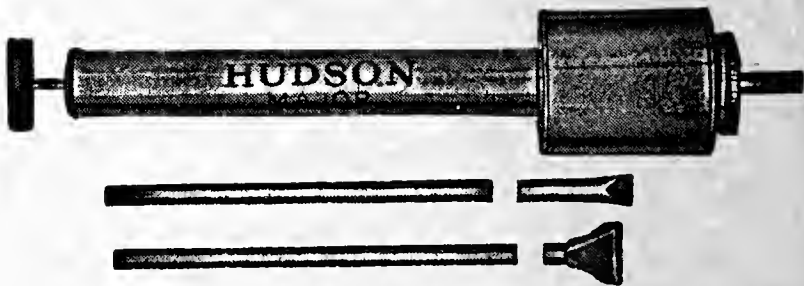
The **427G GLASS JAR** is very desirable for use with solutions which have a chemical reaction on tin or brass and may be used with all sprayers. The container has a capacity of 24 ounces.

Each \$1.25  
Postage 15c extra.



**HUDSON CADET DUSTER**—The Hudson Cadet Duster is adapted for use with all insects powders. Because of its size and efficiency it is a favorite with the housewife in applying roach, ant, and various bug powders. It is frequently used around restaurants, soda fountains, offices, stores, etc.

Cadet Duster, postpaid .....50c



The **MAJOR** duster is made for use with Paris Green, Arsenate of Lead, Calcium Arsenate and similar poisons. Heavy tin pump. Fitted with air valve to prevent powder entering pump. Large filler cap. Equipped with two 12-inch extension tubes and two tips, one an angle tip, the other a board angle tip. Each.....95c  
Postpaid. Each \$1.10



## CYCLONE SEED SOWER

Machine is designed with extra heavy gears and brass bushed bearings for hard service and long wear.

Cyclone Sower

\$2.50

Postpaid \$2.75

## WIL-BO SEEDER

Wil-Bo Seeder is easy to use and is an accurate seeder, adjustable. Seeder will pay for itself first time used in seed saved.

POSTPAID \$1.10



No. T4—One piece, pressed steel 15c; same, aluminum, 75c.

No. 82—Steel Garden Weeder, 20c.

## DANDELION-ASPARAGUS KNIVES

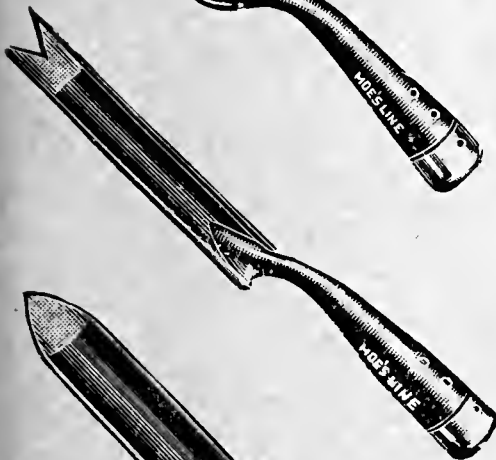
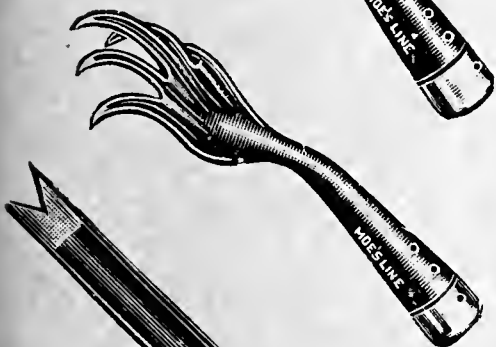
No. 219—15 inches over all, forged tool steel, enameled shank, 50c.

No. 218—16½ ins. over all, scooped polished blade, tool steel, 60c.

No. 0—15 inches over all, light stock. Price 35c.

No. T5 — Transplanting, one piece pressed steel, 15c.

No. 7—All aluminum, enamel handle. Price 65c.



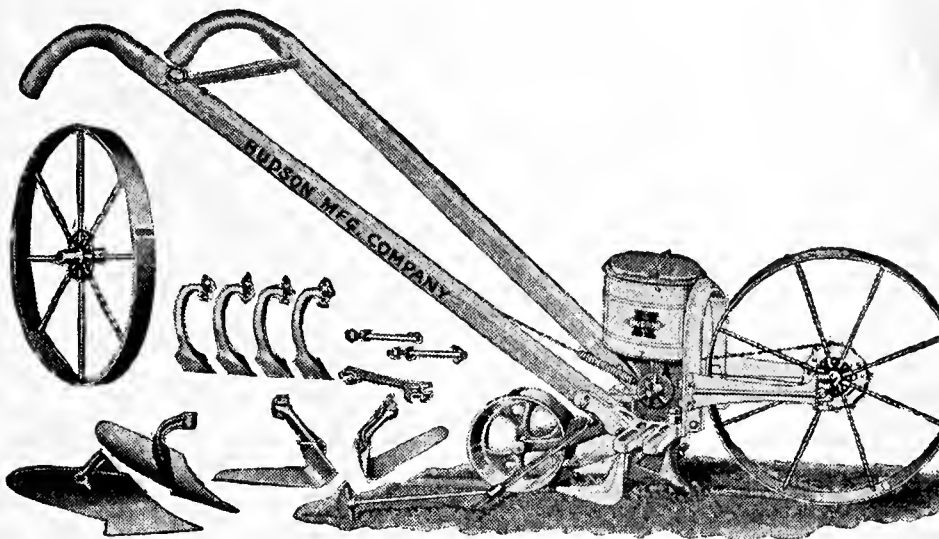
## MOE'S HAND WEEDER

One of the handiest tools yet devised for weeding and thinning out. 20c, postpaid 25c.

## HUDSON GARDEN TOOLS

### HUDSON HILL AND DRILL SEEDER

Single or Double Wheel Cultivator.  
Six Tools in One.

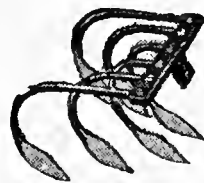


The 201 Seeder and Cultivator is a combination outfit comprising six tools in one. May be used as a hill seeder; drill seeder; a double wheel cultivator, plow or hoe; or a single wheel cultivator. It has all the equipment to serve the gardener from initial seeding until final cultivation. Price \$22.50 complete. Seeder only \$18.50 F. O. B. Spokane or Lewiston.



Tool equipment of 446 Plow consists of clover-leaf sweep, double pointed shovel and combination 5-tooth cultivator and scuffle hoe.

Priced \$4.50 each F. O. B. Lewiston or Spokane.

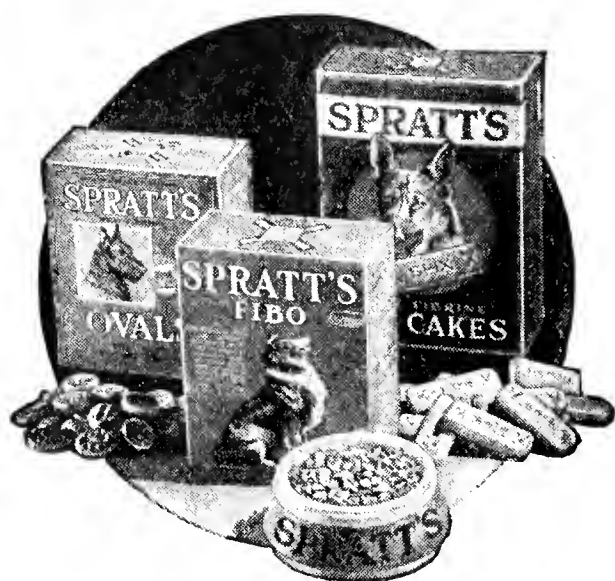


The G6—6-tooth Cultivator Attachment is designed to cultivate thoroughly all spaces between 12-inch rows. Made of carbon steel, forged to shape and pitch. Price 90c each.

YOU CAN DEPEND ON AN EXPERIENCED SEEDSMAN FOR PERSONAL ADVICE  
ON YOUR GARDENING PROBLEMS



# Spratt's Dog Foods and Medicines



**SPRATT'S—"Meat-Fibrine" Dog Biscuit Foods** are the best dog foods you can feed. Write for Spratt's new 48-page illustrated **DOG BOOK (FREE)**.

**SPIX DOG BISCUITS**—Bone-size biscuits. Ideal daily diet for all breeds. Per lb. 15c.

**OVALS**—Small "pocket" biscuits. Per lb. 15c.

**CHARCOAL OVALS**—Keep intestines clean. Per pound 15c.

**FIBO**—Highly nourishing granulated food with egg in addition to meat. 2 lbs. 35c.

**CHALLENGE TERRIER DOG FOOD**—Economical granulated food. 2 lbs. 25c.

**DOG CAKES**—Large cakes for big dogs. Per lb. 15c.

**PUPPILAC**—10 oz. tins, 50c.

**PEPSINATED PUPPY MEAL**—12 oz. tins, 35c.

**BONE MEAL FOR PUPPIES**—45 oz. tins, 50c.

## SPRATT'S DOG MEDICINES

Dog Worm Capsules (large size)	\$.60
Dog Worm Capsules (small size)	.10
Puppy Worm Capsules (large size)	.60
Puppy Worm Capsules (small size)	.10
Chexmate (for female dogs in season)	1.00
Cough Tablets	.60
Eczema Ointment	.60
Mange Liquid	.75
Nerve Sedative Tablets	.60
Special Tablets—Dog (distemper)	1.00
Special Tablets—Puppy (distemper)	1.00
Sulfur Tablets (blood-cooling)	.60
Tapeworm Tablets	.60
Flea Powder (3 oz. tins)	.30
Flea Powder (1 oz. tins)	.10
Black Flea Soap	.30
White Dog Soap	.25
Dry Cleaning Powder	.30

## SPRATT'S CAT FOODS, ETC.

<b>CAT FOOD</b> —(Granulated biscuit food with meat, fish and milk) per lb.	.15
Catnip Leaves (package)	.10
Catnip Mouse	.10
Cat Worm Capsules (large size)	.60
Cat Worm Capsules (small size)	.10
Kitten Worm Capsules (large size)	.60
Kitten Worm Capsules (small size)	.10

We also carry a full assortment of Dog Collars, Leads, Harness, Combs, Brushes and other dog accessories. Write for prices.

# Spratt's Bird Foods and Supplies



**SPRATT'S** famous line of Bird Foods, Medicines, etc., is of the very highest quality.

Boiler Canary Mixture, 15 oz.	.25
Parrot Mixture, 16 ozs.	.25
Lovebird and Parrakeet Mixture, 15 oz.	.20
Song Restorer, 4 oz.	.25
Song Restorer, 1½ oz.	.10
Sing Song (bird biscuit)	.10
Canary Treat with Bell	.10
C.L.O. Nestling Food, 9 oz.	.25
C.L.O. Nestling Food, 4 oz.	.15
C.L.O. Nestling Food, 5 lb. bag	1.50
Moulting Food, 9 oz.	.25
Moulting Food, 2 oz.	.10
Bird Gravel, 32 oz.	.10
Cuttlebone (with holder)	.10
Flake Charcoal, 1 oz.	.10
Fed-O-Red (color food) 1 oz.	.10

## SPRATT'S BIRD MEDICINES

Bird Tonic, 3 oz.	.25
Bird Tonic, 1 oz.	.10
Parrot Tonic, 3 oz.	.25
Bird Lice, Powder	.25

## SPRATT'S FISH FOODS



Bird Wash	.25
Quinella (Diarrhoea)	.25
Aquarium Fish Food, ¾ oz.	.10
Aquarium Fish Food, 4 oz.	.25
Wafer Fish Food	.10
Tropical Fish Food (fine or coarse)	.10
Ants Eggs	.10
Zeke Turtle Food	.10
Recto (Fungus Remedy)	.30
Aquarium Water Purifiers	.05

ADD POSTAGE ON ALL ABOVE

# LEE WAY POULTRY REMEDIES

The George H. Lee Company Line of Poultry Remedies is, in our opinion, the best and most satisfactory. That Company has a Research Department that is constantly working to keep up the high standard of its products and, when possible, to improve them. We carry a complete stock and can fill mail orders promptly.

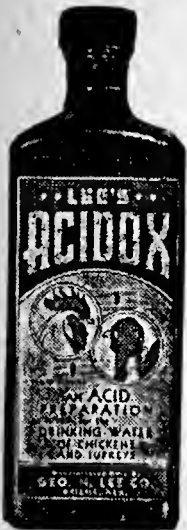
## GERMOZONE

It pays to guard against the crop, digestive and bowel disorders that are so common in poultry. Many of those expensive troubles can be avoided by the regular use of Germozone in the drinking water three times a week. Two teaspoonfuls to the quart. Germozone disinfects the drinking water, of course, but works in the crop too. Germozone is germicidal against germs with which it comes in contact—first in the water and then in the crop. And, third, is good for many simple diarrhea and bowel troubles and for preventing them. Also excellent for treating Occular Roup. Powerful but perfectly safe—won't smart or hurt healthy tissue. Give your poultry the benefit of Germozone.



4-oz. bottle	.....	\$ .40; postage	\$ .05
12-oz. bottle	.....	.75; postage	.10
32-oz. bottle	.....	1.50; postage	.16
1/2-gal. bottle	.....	2.50; postage	.24
1-gal. bottle	.....	4.50; postage	.38

## ACIDOX



The value of acids as a help in treating Coccidiosis reaches a high level with the Controlled Acidity of ACIDOX. You no longer need to use violent flushes to throw your birds off feed with strong acids. Just use ACIDOX in the drinking water.

4-oz. bottle (for 100 little chicks or 50 8-week birds)	....	\$ .50; postage	\$ .05
12-oz. bottle (for 300 little chicks or 150 8-week birds)	....	1.00; postage	.10
32-oz. bottle (for 800 little chicks or 400 8-week birds)	....	2.00; postage	.16
1/2-gal. bottle (for 1600 little chicks or 800 8-week birds)	....	3.50; postage	.24
1-gal. bottle (for 3200 little chicks or 1600 8-week birds)	....	6.50; postage	.38

## THE GIZZARD CAPSULE

Most wormy birds have two or three kinds of intestinal worms. If they have Large Tape Worms and Pin Worms, they should not be wormed only for Large Round Worms. Use the Gizzard Capsule for this reason, and because individual dosing is more efficient and surer than powders used in the mash. Its insoluble coating won't dissolve in crop or stomach. Never sticky or hard to give. Slips down the throat easily. The Gizzard Capsule is crushed in the gizzard like a grain of corn and the medicines pass directly to the worms.



Nothing else can give you the same advantages as The Gizzard Capsule. That is why over 160 million birds have been wormed with it. Use it for your chickens and turkeys. Just one more egg per bird will more than pay for the treatment.

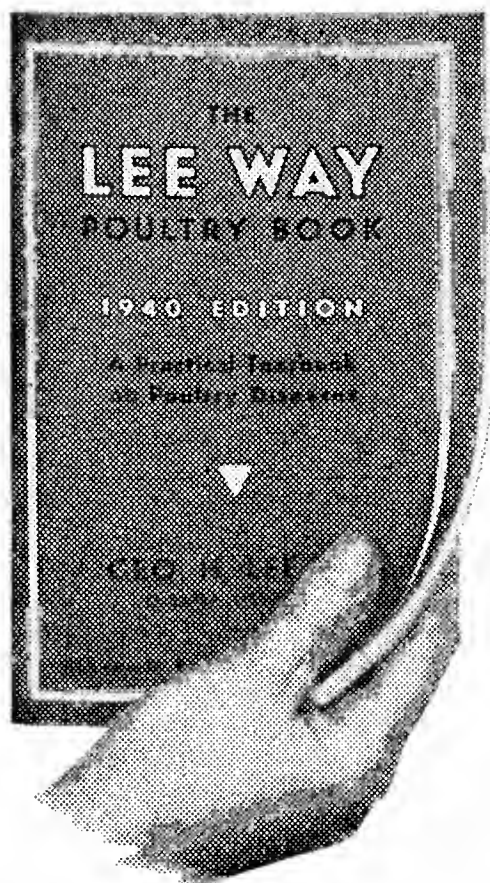
	Adult	Pullet	Chick
50-cap. package	.....\$ .75	\$ .50	\$ .40
100-cap. package	.....1.25	1.00	.75

## VAPO-SPRAY AND LEEMULSION FOR SYMPTOMS OF COLDS, WHEEZING AND BRONCHITIS

Disease of the air passages are often dangerous and expensive. When birds have colds, sneeze, or cough wheeze or gasp, act quickly. Give all the birds Epsom Salts. Then give them either Leemulsion in the drinking water or spray them several times a day with Vapo-Spray. In severe cases it is advisable to use both. For more about these diseases and about how Leemulsion and Vapo-Spray work and should be used, see the free Lee Way Poultry Book.

VAPO-SPRAY	Price	LEEMULSION	Price
Pint can	.....\$ .50	4-oz. bottle	.....\$ .50
Quart can	......75	12-oz. bottle	.....1.00
1/2-gal. can	.....1.25	Quart bottle	.....2.00
1-gal. can	.....2.00	1/2-gal. bottle	.....3.50





## LEE WAY POULTRY BOOK — FREE

Illustrated, 64-page, practical book on symptoms, prevention, and treatment of common poultry diseases. Pointers on brooding, worming, moulting, feeding, etc. Tells how to make post-mortem examination and recognize different diseases. Also describes Lee Products, how they work, when and how they should be used.

It will be mailed to you FREE, on a post card request to us or to GEO. H. LEE CO., Omaha, Nebraska.

## LEES LICE KILLER, LEE'S PERCH PAINT, and LEE'S LOUSE POWDER

FOR EVERY NEED IN CONTROLLING LICE AND MITES

LEE'S LICE KILLER is painted on roosts and dropping boards for lice, and sprayed in the house for mites. PERCH PAINT is a more concentrated product for lice only. LEE'S LOUSE POWDER is handy for treatment of small flocks.

### LEE'S LICE KILLER

½ pint .....	\$ ....;
1 pint .....	....;
1 quart .....	.60; postage \$ .12
½ gallon .....	.90; postage .12
1 gallon ..	1.50; postage .12

### LEE'S PERCH PAINT

½ pint .....	\$ .85; postage \$ .10
1 pint .....	1.50; postage .12
1 quart .....	2.50; postage .12
½ gallon .....	4.00; postage .16
1 gallon .....	7.00; postage .24

## LEE'S LOUSE POWDER

1 lb. can .....\$ .25; postage \$ .10; 2½ lb. can .....\$ .50; postage \$ .12



BAG BALM—Can 60c; postpaid 70c.

BAG BALM DILATORS—25 medicated dilators packed in a small can of Bag Balm for 65c, postpaid.

KOW-KARE—Small cans, 1¼ lbs., 75c; 2¾ lbs., \$1.40; postpaid. Free booklet on request.

**WALKO**—The safe way to raise your chicks. Also used for older chickens. Place in drinking water or milk. Tablets postpaid. Per box, 50c.

**POULTRY PEPPER**—In cold, wet weather it gives tone to the system, puts vim and snap into the birds, and is a great help to egg production. Postpaid. Per lb. 25c.

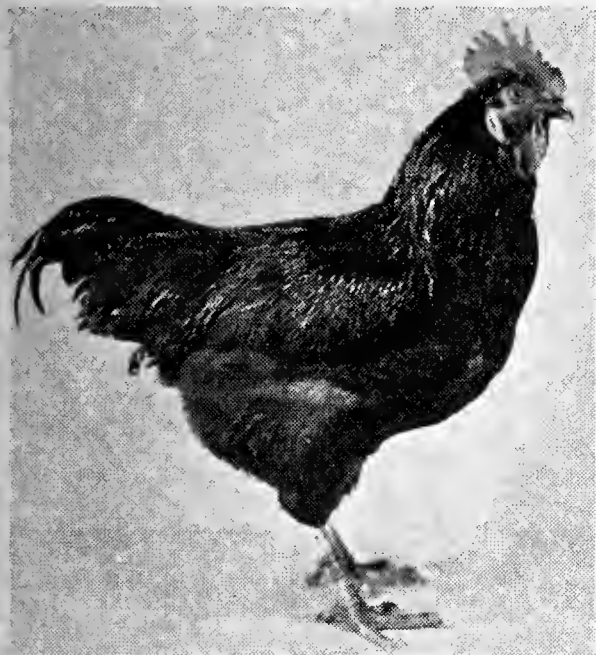
**VITA BRAND COD-LIVER OIL**—The importance of vitamins in the rations of poultry and livestock has been quite clearly defined during recent years. Especially are the fat soluble vitamins, A and D important in the maintenance of bodily vigor and prevention and cure of disease. 5 gal. cans, \$7.00; 1 gal. cans, \$1.65; quart cans, 75c. Postpaid 3d zone.

**TOBACCO POWDER**—A very effective agent for controlling round worms in poultry. Used also quite generally in the dust bath for body vermin, and a very effective fumigant when burned in poultry houses. Postpaid. 1 lb. 25c; 10 lbs. \$2.00.

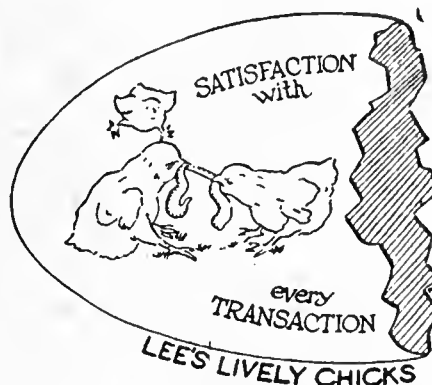
**EPSOM SALTS**—Pure, use for stock or poultry. 3 lbs. 40c. Postpaid.

# BIGGER PROFITS WITH DUTHIE'S BABY CHICKS IN 1940

## GRAND CHAMPION COCKEREL OF THE ENTIRE SHOW AT THE PANHANDLE POULTRY SHOW



A Rhode Island Red which is mated with one of Duthie's flocks. He is also from a line of Champions at filling the egg basket. His dam laid 222 eggs in her pullet year and his sire's dam laid 241 eggs in one year.



Our flock owners are each striving to produce the very best possible in their own breed and we feel that with each one specializing in one particular breed, it is possible to supply better chicks to our customers than it would be where one party was trying to produce many breeds and not giving the best of their efforts to any one breed. This is a day of specialization and we believe our customers profit by our specialization in our production of better chicks.

All of our flocks are Pullorum tested for B. W. D. Sanitary measures are carried out to insure our customers of healthy, strong chicks which carry breeding for high egg production and other desirable traits according to breed, which make for better profits in poultry.

Breeding wins in egg production and disease resistance in fowls just as it does on the track in the Kentucky Derby. Visit our flocks and see what they are doing. Be sure of the best and order **DUTHIE'S BETTER BABY CHICKS FOR BETTER POULTRY PROFITS IN 1940.**

### NEW HAMPSHIRE REDS

Duthie's New Hampshire Reds are bred for fast development and high egg production. The desirability of this breed as an all-purpose farm flock has made the demand for them grow until Duthie's New Hampshire Reds are leading in popularity as a dual purpose fowl. Due to size and fast development they are also desirable for caponizing. Be sure to book your order early in order to insure getting your baby chicks when you want them. An outstanding buy at only \$11.00 per 100. \$52.50 per 500. **Special Matings**—add \$2.00 per 100 to regular price.

### WHITE LEGHORNS

Duthie's White Leghorns are selected for high egg production of large white eggs and for healthy, vigorous birds. Our Leghorns come from flocks that are bred for production and profit and we can highly recommend them to our customers as being birds that will pay. Price only \$9.50 per 100; \$45.00 per 500..

**Special Matings**—add \$2.00 per 100 to above prices.

### LEGORCAS

Duthie's Legorcas have made a name for themselves as sturdy, fast developing birds which produce lots of large white eggs. Our customers find this breed so satisfactory in egg production and vitality that having once had them they refuse to buy any other breed. They are a cross of pure bred, high production white leghorns and pure bred, high production black minorcas. The hybrid vigor and productivity makes them a real buy. Price only \$10.00 per 100; \$47.50 per 500.

## SPECIAL MATINGS

Duthie's Special Matings for extra high production chicks are available in limited quantities in White Leghorns, Barred Plymouth Rocks, New Hampshire Reds and Rhode Island Reds. For Special Mating Chicks add \$2.00 per 100 to regular price.

### BUFF ORPINGTONS

Duthie's Buff Orpingtons are selected carefully for healthy, vigorous birds with good egg producing qualities. An outstanding meat fowl. Price only \$12.50 per 100; \$60.00 per 500.

### RHODE ISLAND REDS

Duthie's Rhode Island Reds are mated to meet the needs of the poultry producer. They have proven themselves outstanding both in the show room and at filling the egg basket. They are a very desirable dual purpose fowl. Our breeders are carefully selected and are healthy, vigorous birds. Price only \$11.00 per 100; \$52.50 per 500.

**Special Matings** \$2.00 per 100 more.

### BARRED PLYMOUTH ROCKS

Duthie's Barred Plymouth Rock flocks are from trap-nested, high egg producing parentage and are carefully selected for egg producing qualities as well as being a very desirable meat fowl. They also make excellent capons. Males used in our flocks are from high egg producing hens and some of our males have sisters which have produced over 250 eggs in their pullet year. The same breeding would cost much more elsewhere. Only \$11.00 per 100 and \$52.50 per 500, when available.

**Special Matings**—add \$2.00 per 100 to regular price.

### JERSEY WHITE GIANTS

Duthie's Jersey White Giants are large, vigorous birds, desirable for capons due to their large size. Males weigh up to 13 pounds and hens up to 10 and 11 pounds. Also a rugged chicken which produces lots of large brown eggs. Priced at only \$13.50 per 100; \$65.00 per 500, when available.



# LEE'S LIVELY CHICKS

## UNSEXED BABY CHICKS

Prepared for shipment as in previous years with no attempt at segregation of sexes. Carefully boxed and ventilated to arrive 100% live delivery as guaranteed.

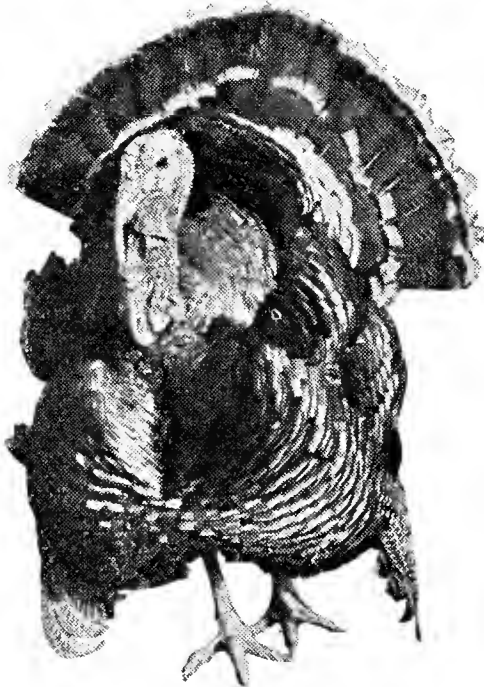
	Per.25	Per 50	Per 100		Per 25	Per 50	Per 100
White Leghorns:			or more				or more
Regular .....	\$3.50	\$6.25	\$11.50	New Hampshire Reds ....	\$4.00	\$7.25	\$13.50
Special Hanson Strain..	4.00	7.25	13.50	Buff Orpingtons .....	4.25	7.75	14.50
White Leghorn-Black				White Wandottes .....	4.35	8.00	15.00
Minorca Cross .....	3.60	6.50	12.00	Brown Leghorns .....	3.75	6.75	12.50
Rhode Island Reds .....	3.75	6.75	12.50	White Rocks .....	4.00	7.25	13.50
Barred Rocks .....	3.75	6.75	12.50	Light Brahmas .....	4.50	8.25	16.50

Every bird in each breed is individually handled by us in culling and blood testing for B. W. D. Very careful selections of individual birds are made with special attention being given to remove any bird too small or too large for the breed, off-color birds, all deformities and other objectionable characteristics.

### SPECIAL MATINGS

For those who desire special foundation stock or chicks above average quality, we offer Special Mating Chicks of special value in White Leghorns, Rhode Island Reds, Barred Rocks, Black Minorcas, White Minorcas, White Wyandottes, New Hampshires and Buff Orpingtons at 2c over regular prices.

## Mammoth Bronze Turkey Poults



We are offering this year Mammoth Bronze baby turkeys. This is the largest of all the turkey breeds, having big breasts and lots of meat.

Our poults are bred from standard birds of the short-legged, quick maturing strain.

### PRICES ON BABY TURKEYS

\$ 6.75 per 15 .....	prepaid
11.75 per 25 .....	prepaid
20.00 per 50 .....	prepaid
35.00 per 100 .....	prepaid

WRITE FOR QUANTITY PRICES  
F. O. B. LEWISTON

### DAY OLD PULLETS

Be wise—Use the latest method of saving money. If you want Pullets don't buy Cockerels. Our sixth season in selling Day-old Pullets. All selections made by a properly qualified or licensed Baby Chick Sexing Expert.

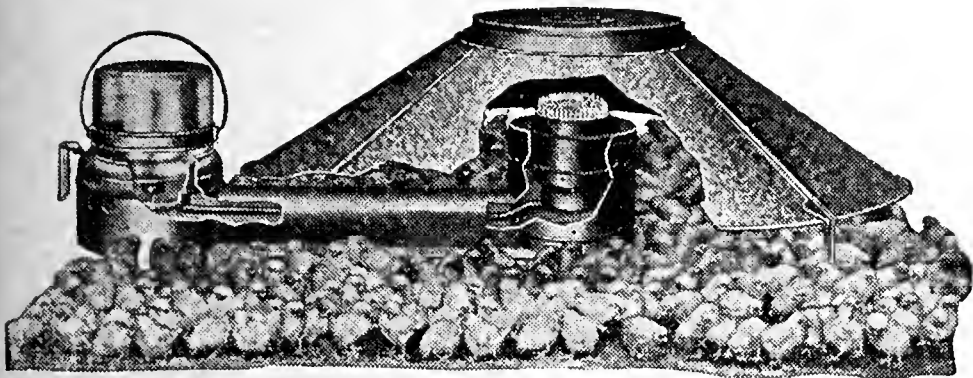
	Per 25	Per 50	Per 100		Per 25	Per 50	Per 100
White Leghorns:			or more				or more
Regular .....	\$6.25	\$12.00	\$23.00	New Hampshire Reds .....	\$5.00	\$ 9.25	\$17.50
Special Hanson Strain ....	7.00	13.50	26.00	Buff Orpingtons .....	5.50	10.75	19.50
White Leghorn-Black				White Wyandottes .....	5.75	11.00	21.00
Minorca Cross .....	6.75	13.00	25.00	Brown Leghorns .....	6.75	13.00	25.00
Rhode Island Reds .....	4.75	8.75	16.50	White Rocks .....	5.00	9.25	17.50
Barred Rocks .....	4.75	8.75	16.50				

### WE GUARANTEE 90% PULLETS

Adjustments. If order should contain more cockerels than guaranteed, proper verification must be forwarded to us within 12 weeks of shipment. In such case we will refund the full price of the Day-old Pullets for the number of Cockerels in excess of the guarantee.

SPECIAL MATING PULLETS 3c EACH ADDITIONAL

# POULTRY SUPPLIES



## OIL BROODERS

Simple oil burner of rigid construction. Wire edged canopy and brazed oil lines. No leveling or priming. Automatic control.

42-inch Canopy .....\$12.25

52-inch Canopy ..... 13.75

## HUDSON OIL BROODER

Standard series. These brooders equipped with Hudson Apex Hush Flame Burner, very quiet in operation and very economical for small houses. Burns distillate. Drum 20 inches in diameter, 6½ inches deep, with 6 gallon oil tank. Equipped with Hudson Micro Tem Valve. This brooder consumes its own carbon and maintains an even temperature.

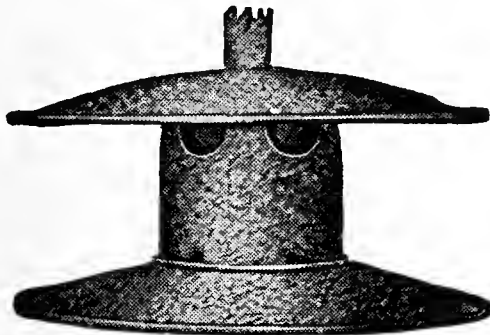
No. 148A, 48-inch hover, recommended for

houses up to 12x12. Price each \$17.50.

No. TS3. Fuel tank stand extra at \$1.25.

## PUTNAM BROODER STOVE

You can make your own brooder out of a box, for accommodating 25 to 60 chicks, by using this heater. It requires filling but once a week—no other attention needed. Uses less than a gallon of oil a month. Acts like a fireplace, carrying foul air out and drawing in fresh air, perfect ventilation automatically. Heat radiates from above onto backs of chicks. Can be operated anywhere, in the house or out of doors. Directions for making brooder enclosed. Postpaid, \$4.75.



## AUTOMATIC EGG SCALE

Weighs accurately all sizes of eggs.

Postpaid, \$1.50

## WATER FOUNTAINS

This popular fountain made in three sizes. Furnished in heavy galvanized steel. Corrugated pan attaches to tank by friction snap. Ribbed cone top prevents roosting.

1 gal. size, each .....55c

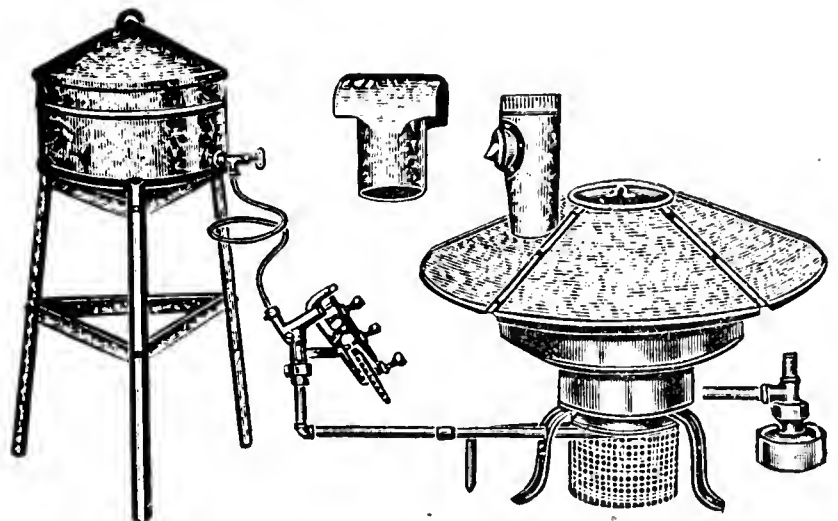
2 gal. size, each .....80c

3 gal. size, each .....95c



HUDSON FEEDERS—No. R212, 15c; No. R218, 25c; No. R224, 35c; No. R236, 45c.

GLASS CLOTH—Admits Ultra-Violet rays. Priced 30c per yard. Postpaid.



No. 254D, 54-inch hover, for houses up to 14x14.

Price each \$21.00.

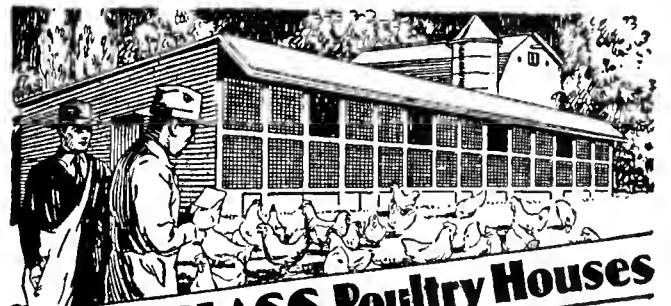


## INCUBATOR AND BROODER STOVE WAFERS

Specify size and style of Incubator or brooder.

3-inch wafer, postpaid.....40c

4-inch wafer, postpaid.....60c



**CEL-O-GLASS Poultry Houses**  
**are Health Houses**

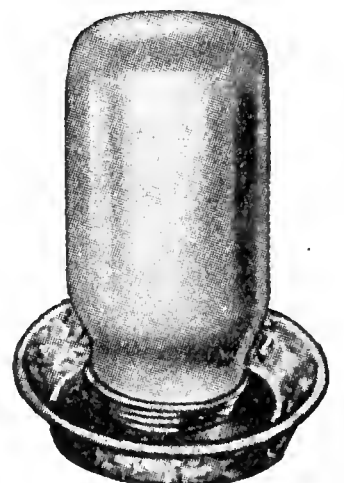
Better than glass for poultry houses. Sold by running foot. 1x3 ft., not postpaid, per foot 40c; 28 inches wide. Per foot 33c.

## JAR FOUNTAINS

No. G25, galvanized—  
each 10c; 3 for 25c.

E25, enameled—  
Each 10c

B25, glass—  
Each 15c; 2 for 25c.





## IMPORTANT ORDERING SUGGESTIONS

### FREE TRANSPORTATION ON ALL FLOWER AND VEGETABLE SEEDS IN PKTS., OUNCES OR 1/4 LBS.

All seeds quoted in this catalog are now shipped by parcel post, all transportation and packing charges paid by us. C.O.O. and money order return fees are not considered as transportation charges and, therefore, must be paid for by the customer. Avoid them by sending remittance with order. Bulk seeds, such as Peas, Beans and Corn, in quantities, are shipped to your nearest express or freight office, transportation collect. If you wish them shipped by parcel post, please send necessary postage.

**SHIPPING ORDERS.** When goods are to be shipped by Freight or Express, give plain shipping directions; otherwise we use our best judgment in routing. Goods on which we pay transportation are shipped at our option.

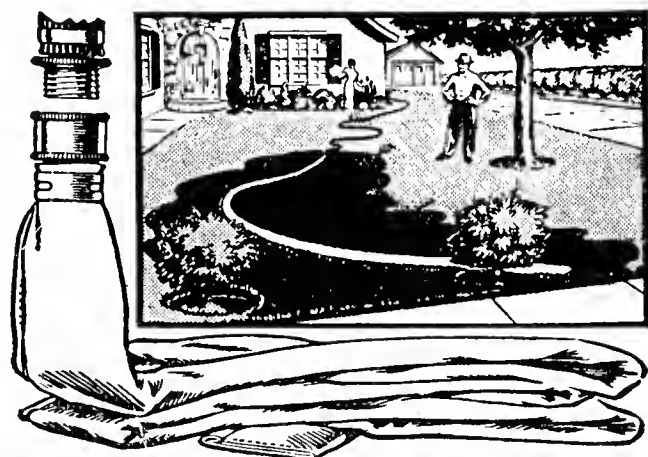
**SEND MONEY.** Remittances should always accompany the order. Remittances may be made at our risk by any of the following methods (1st and best) **Post Office Order**; (2nd) **Bank Draft**; (3rd) **Express Company Money Order**; (4th) **Cash by Express in amounts not less than \$50**; (5th) **Registered Letters**. We also accept stamps in payment but the Postal Department asks us to discourage their use.

**AN ORDER BLANK** is in this catalog for your convenience. Print or write your name, post office, county and state plainly. If you have moved, give us your old address and we will change our mailing list.

**WE GUARANTEE** the safe arrival of your order.

**NON-WARRANTY.** Contingencies continually arising prevent the very best seeds always giving satisfaction. For these reasons, it is impossible to guarantee seeds under all circumstances; therefore we give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, or plants we sell, and will not be in any way responsible for the crop.

## SOIL-SOAKERS



### PRICES

No.	Length	Diameter	Price
0	12-ft.	2-in. (flat)	\$1.00
1	18-ft.	2-in. (flat)	\$1.50
2	30-ft.	2-in. (flat)	\$2.50

# R O O T O N E

PATENTS PENDING

## THE PLANT HORMONE POWDER

ROOTS CUTTINGS :: GERMINATES SEEDS  
STIMULATES BULBS :: KILLS FUNGI  
STOPS WILT AND DAMPING-OFF  
INCREASES PLANT GROWTH

Safe Simple Sure

Two-Ounce Jar, \$1.00 One-Pound Can, \$5.00  
Quarter-Ounce Packet, 25c

# VIGORO

Complete plant food



WE HIGHLY  
RECOMMEND THEM

Try horticulture's newest discovery—Vitamin B1. Enjoy beautiful house plants and the most gorgeous garden flowers you ever grew.

Vitamin B1 is NOT a food but acts to release and magnify food in soil. If the soil is poor, there is no food to release but, Fulton's Plantabbs, being a high analysis, complete, balanced FOOD, supplies it in large amounts and COMBINED with Vitamin B1 produces most amazing results. Makes larger, stronger plants; full, beautiful foliage; abundance of finer blossoms.

Fulton's Plantabbs are clean, odorless, quick dissolving TABLETS. Push into the soil or dissolve and make liquid fertilizer—either way is highly effective. Contains Nitrogen 11%, Phosphoric Acid 15%, Potash 20% PLUS the measured, effective amount of Vitamin B1 pure crystalline powder in each tablet. No trouble mixing, nothing to go stale, no increase in price. Do not confuse with medicine tablets containing Vitamins.

Boxes at 25c, 50c, \$1.00 and \$3.50.

**STATE OF ILLINOIS**  
**DEPT. OF AGRICULTURE**

Henry Horner, Governor  
**J. H. Lloyd, Director**

Division of Plant Industry, Glen Ellyn, Illinois

Nurseryman's Certificate No. 645

**THIS IS TO CERTIFY** that the nursery consisting of gladiolus stock (field and storage inspected) and the premises of Mark G. Ellmore, 718 E. Chestnut St., Mason City, Illinois, situated at Mason City have been inspected by a duly appointed inspector of this office and that said nursery and premises are apparently free from dangerous insect pests and plant diseases.

This certificate is valid until August 1, 1940, unless  
sooner revoked. January 29, 1940.

**L. A. MOORE,**  
Superintendent

**H. F. SEIFERT,**  
Chief Plant Inspector.







### **PHLOX GIGANTEA, SALMON GLORY**

**Silver Medal, All-America Selections, 1939**

A good salmon in Phlox Drummondii Gigantea type. The individual florets are gigantic for Phlox, measuring from  $1\frac{1}{4}$  to  $1\frac{1}{2}$  in. in diameter. Color is a pure salmon pink with a distinct creamy-white eye. This combination with its clear, clean, crisp appearance, makes one of the most beautiful color combinations ever seen. **Pkt. 10c.**

### **SCABIOSA IMPERIAL GIANTS, BLUE MOON**

**Honorable Mention, All-America Selections, 1939**

An entirely different and improved flower and plant form from existent Scabiosa varieties. Broad, heavy, wavy petals eliminate pincushion center. Large flowers are fully double and of a rich deep lavender blue. Wiry stems. An ideal cutting type. **Pkt. 15c.**



### **MARIGOLD, EARLY SUNSHINE**

**Bronze Medal, All-America Selections, 1939**

The first Marigold with odorless foliage. Bright golden orange flowers. Very beautiful. An early and continuous bloomer. **Pkt. 15c.**





# VEGETABLE GARDEN

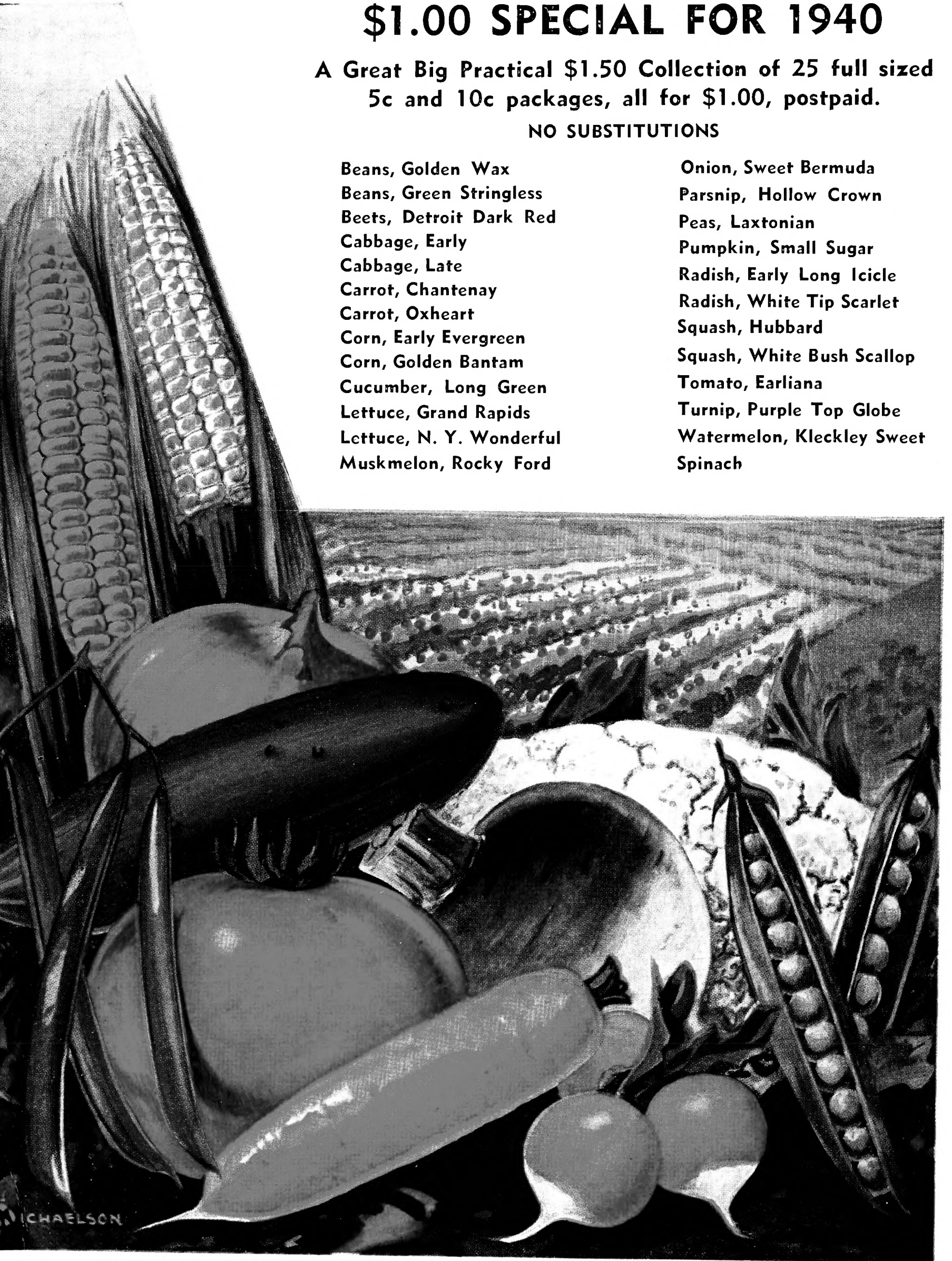
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Carrot, Oxheart  
Corn, Early Evergreen  
Corn, Golden Bantam  
Cucumber, Long Green  
Lettuce, Grand Rapids  
Lettuce, N. Y. Wonderful  
Muskmelon, Rocky Ford

Onion, Sweet Bermuda  
Parsnip, Hollow Crown  
Peas, Laxtonian  
Pumpkin, Small Sugar  
Radish, Early Long Icicle  
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